

From qrp-request@Think.COM Thu Jul 8 13:24:37 1993
Date: Thu, 08 Jul 93 17:17:46 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: \$125 for an HW-8?!!!!

NO WAY

An HW-8 is worth \$50 at most. I bought my HW-9 two years ago, with WARC bands and power supply for \$150.

The owner of that HW-8 is a dreamer!

72, KR1S

From qrp-request@Think.COM Thu Jul 8 15:04:42 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 8 Jul 93 11:59:05 PDT
Subject: RE: \$125 for an HW-8?!!!!

The going rate for a HW-8 is more like \$75 or 80 perhaps a little higher. \$150 would be good going for a HW-9 today. When rigs are in demand then its what the market will stand ...

Kevin

From qrp-request@Think.COM Sat Jul 10 17:39:26 1993
Subject: (old?) Ten Tec OMNI-D ?
Date: Sat, 10 Jul 1993 14:36:14 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Anyone know anything about the OMNI-D from Ten Tec, and its vintage? Was it the big brother to the Triton IV line? I understand that WARC crystals were an option (installed in the radio I am inquiring about) did it actually have band switch positions for WARC?

I understand that it had a notch filter, and that it had optional crystal IF filters AND separate audio filters? Anyone have a manual for this radio? I wonder about the CW-ability of this radio. The Triton IV was really nice for CW, and if this was an improvement, it sounds really good to me. Similarly - I am suspecting that the QRP-ability of this radio is simple as it was on the Triton IV? The current drain on receive?

Any information would be greatly appreciated.

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
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(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
UCI ARC WB6KGN.

From qrp-request@Think.COM Tue Aug 17 22:46:32 1993
From: jjw@seastar.org (John Welch)
Subject: Re: 1 bit DDS... Sorry, won't work that way.
Date: Tue, 17 Aug 1993 21:26:19 -0500 (CDT)

> Subject: 1 bit DDS?
>
> I've been thinking about Direct Digital Synthesis and have a question.
> A typical DDS (such as the one in the recent 73) consists of some
> digital logic implementing an adder, a lookup table to generate a sine
> function, and a digital to analog convertor (DAC) to produce a sine wave.
> The DAC is usually the hard part.
>
> My question: For receiver purposes, in which you're going to drive a
> "switching" mixer such as a double-balanced mixer from Mini-Circuits,
> why bother with generating a sine wave? Why not just use the
> most-significant bit of the adder output to drive the mixer? After
> you drive a DBM with big sine wave, the wave is essentially a square
> wave anyway.
>
> 73, wa4fut

Well, not exactly. The problem is phase jitter. If you do the above,
your *average* frequency will be what you set it to, but the
instantaneous frequency will be all over the spectrum. For an
example...

Say I wanted an output frequency from my DAC that was 1/3rd of my DDS
oscillator frequency. The first two cycles would come out (looking at
the MSBit) as 1,1,0,1,0,0. The first cycle would have a high signal
for 2/3rds of the time, and the second would have a low signal for
2/3rds of the time.

The way to make a square wave without all the phase noise is first
make the best sine wave you can, *then* square it up. Otherwise, all

you'll hear is a buzz... :-(

--

John Welch, N9JZW

From qrp-request@Think.COM Tue Aug 17 08:55:13 1993

Date: Tue, 17 Aug 93 08:55:08 -0400

From: Gary Bishop <gb@cs.unc.edu>

Subject: 1 bit DDS?

I've been thinking about Direct Digital Synthesis and have a question. A typical DDS (such as the one in the recent 73) consists of some digital logic implementing an adder, a lookup table to generate a sine function, and a digital to analog convertor (DAC) to produce a sine wave. The DAC is usually the hard part.

My question: For receiver purposes, in which you're going to drive a "switching" mixer such as a double-balanced mixer from Mini-Circuits, why bother with generating a sine wave? Why not just use the most-significant bit of the adder output to drive the mixer? After you drive a DBM with big sine wave, the wave is essentially a square wave anyway.

73, wa4fut

From qrp-request@Think.COM Fri Jul 23 15:08:59 1993

Date: Fri, 23 Jul 93 15:08:48 EDT

From: majewski@erim.org (Ron Majewski)

Subject: 12v marine battery maintenance

Hello to everyone on the list!

I recently purchased a deep-cycle 12v marine battery to power my QRP field excursions (including FD). It's nothing special -- I got it at Sears and it has about 100 amp-hrs of capacity. I charge it up using the trickle mode on my 12v car battery charger.

The sales assistant at Sears was unable to tell me how to properly care for the battery over the long term. I've seen others mention the use of these batteries here, so I thought I'd pick the brains of the collective consciousness of the list.

Between uses, should I keep the battery fully charged or fully discharged?

Should I load-cycle the battery after long periods of no use? That is, should I charge it up, put a load on it and drain it down?

Are there any other considerations that I should be aware of?

Thanks much and 72.

Ron (wb8ruq).
majewski@erim.org

From qrp-request@Think.COM Tue Aug 10 12:05:48 1993
Date: Tue, 10 Aug 93 12:05:29 EDT
From: swamik@ele.uri.EDU (Swami Kumaresan)
Subject: 20m 1/4 wave

In the february 93 issue of qst, ac4hf wrote the article "
Falling in Love with Ham Radio for < 200 dollars.
He speaks of a 1/4 portable antenna that he saw the design for in
April 1992 issue of QST (pages 38-41). Does anyone have this design or a siomilar
design. I want to build a simple low cost portable 20m antenna (vertical).

tnx es 73s de kb1amb/aa

From qrp-request@Think.COM Wed Aug 4 11:52:11 1993
Date: Wed, 4 Aug 93 10:51:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: 40 Meters is Alive and Well

Gang,

just had to report activity last night on 40 meters. it was hopping
for this time of the year.

with the OHR Spirit running 2W out i worked DJ7AA near Hamburg, Germany.
goob op going at high speeds and slowing down for the slower ops.
my great circle bearing program gives me a total distance of 4,301 miles
or 6,927 kilometers. thus i'm up from 1,488 miles/watt to 2,140 miles/watt.
he was 599, i was 439 RST. i had to repeat, but it counts. i'm in the log.
QSL going via buro.

also heard but no attempt to work were XE1CCB, VE2XLT/QRP, YU1QL, VE6NTY,
and a multitude of others. ooops, i lied. i did try YU1QL, but he
attracted a crowd of KWs..... ;-)

DXCC looks possible with 2 watts on 40 meters QRP.....

72 es g1 es dx de k5fo dit dit

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

From qrp-request@Think.COM Wed Jul 28 16:22:03 1993
Date: Wed, 28 Jul 1993 14:18:45 -0600 (CST)
From: Peter Hardie <hardie@herald.usask.ca>
Subject: 72/73

The first mention of 72 that I saw in print was a guest editorial by Gus G8PG in SPRAT #68, Autumn 1991. He says that there had been a suggestion some months before by members of the U QRP club that QRP ops use 72 to mean "Wishing you Good QRP". It was adopted soon after that and I have heard it used a lot between QRP stations, especially in the ARCI contest.
72/73 de Pete hardie@herald.usask.ca VE5VA

From qrp-request@Think.COM Wed Jul 28 21:27:38 1993
Date: Wed, 28 Jul 93 21:27:28 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: 73 mag color burst tx for 40 meters...

Hi all, Sorry about forgetting the date of that article.. it was in May 1991 of 73 Amateur Radio Today. There are two Transmitters there , one the 40 meter wave bender and one the Color Burst tx (73 mags version) . Anyway, I etched both boards using the QST method of July, 93 (pg, 42). I assembled the colorburst Tx with the 40 meter output filter, and I also used a 7805 regulator for the 5 volt supply instead of the two 6 volt batteries, I use my one 12 volt supply. Someone asked if this was available at a ftp site, but it's not, only because I'm not sure of the legalities. Anyway, I think this is a lot easier to get going than the Cubic incher that I made for 80, and most of the parts are at Radio Shack. Anyway, Happy Building, and maybe I should call Wayne Green to see what kinda fit he would have if we put the artwork on a ftp site.. 73/72 (I'm slowly converting to use of 72).
Brad WB8YGG

From qrp-request@Think.COM Wed Jul 28 14:01:47 1993
Date: Wed, 28 Jul 93 14:01:35 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: 73 mag's color burst tx but on 40 meters.

Hi qrpers, I just put together the kk7qrp tx (73 Magazine)that was intended for 80 meters.
I put it together on 40 though, and it works great. I had a minor pileup when I first called cq on 7.040 last evening. My first contact was in MD

from my qth in Brockport, NY. My report was 579. He was using an ARK 40. Anyway, all the parts but the torroid were available locally (my junk box) even the output transistors (4) 2n3904 transistors in parallel. This transmitter gets about 1.5 watts out

From qrp-request@Think.COM Wed Jul 28 13:43:47 1993
Date: Wed, 28 Jul 93 13:43:24 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: 73/72

Just out of curiosity, how long has the 72 been used as opposed to the 73.

I have had numerous contacts with said qrp stations, and not one of them

has sent me a 72 yet that I'm aware of. Just curious. 72.5 for now..

Brad WB8YGG

From qrp-request@Think.COM Mon Aug 16 06:52:32 1993
Date: Mon, 16 Aug 93 06:49:19 EDT
From: robert penneys <penneys@freezer.cns.udel.edu>
Subject: A&A rig no rf out-help!

I just got an A&A Engineering 40 xcvr at a hamfest that has no detectable RF out on xmit. Any ideas? Tnx Bob WN3K FRC

From qrp-request@Think.COM Mon Aug 16 09:38:14 1993
Date: Mon, 16 Aug 93 09:22:29 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: Re: A&A rig no rf out-help!

Bob

You only have two choices

Unload it at the next flea market or diagnose the problem and repair it.

With a simple RF probe (can build one w/ a resistor, capacitor and diode) and a voltmeter you should be able to isolate the problem. Starting at the 1st transmitter stage look for RF output. Keep moving toward the output until you find the stage thats broken. Check for proper DC voltages. Now you only dealing with a simple circuit and a few logical possibilites (e.g. shorted circuits, open circuits, faulty parts etc.).

Since you dealing with a kit, that my not have even been assembled correctly, this process will also cover that possibility too.

73

Ed W1AAZ

From qrp-request@Think.COM Mon Jul 19 18:06:59 1993
Date: Mon, 19 Jul 93 17:06:49 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: AC4HF review

Jeff,

good review.

i hate to be so dumb, but i remember maybe seeing an advertisement for the quad in one of the popular magazines.

can you tell me where i might see the ad? how much for this puppy? list price? discounted? who is the manufacturer?

inquiring minds wanna know.

i'm impressed by your review. you just have too much time on your hands.

also, as a cw op, you had BETTER move the 10 meter point down about 650 KHz or the CW Police are gonna show up at your very own doorstep. ;-)

OK, it'll probably mess up everything else, so since the spots are on the decline and the lower bands are ok, DFW (Chuck Adams Don't Fool With It Rule) is in effect.....

guess Tennessee may be rare for QRP and you'll be 5 Band DXCC before you know it.....

72 de k5fo dit dit QRO at 2 watts.

p.s. we assume that you used the famous OHR WM-1 to get the accurate readings for QRPP levels.....

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Jul 16 09:02:12 1993
From: mvjf@mvubr.att.com
Date: Fri, 16 Jul 93 08:50 EDT
Subject: ACGW Contest

Dont forget the AGCW (German) contest this weekend.
(See prev. listing from AGCW)

QRP-NE.... The N.E. ARRL Convention is the weekend
of July 24 th, in Manchester NH.
Randy, AA2U will be speaking on contesting
on Saturday, and Rick, K1BQT, speaking on HB
on Sunday.

I will be on vacation next week and then going on
to a new job assignment. I will un-subscribe for
an indefinite period.

Reach me on 508 465 9838 (Beach cottage)
or 603 898 6188 (Home).

72, Jim - W1FMR mvjf@mvubr.att.com

From qrp-request@Think.COM Tue Jul 27 20:27:27 1993
Date: Tue, 27 Jul 93 19:27:19 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: advertisement

in the QQ july 1993. there is an ad for
an TenTec Argosy I. David, AF5U, says that
it is gone. life in the fast lane.....
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Jul 22 22:04:36 1993
Date: Thu, 22 Jul 93 19:02:54 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Alignment Inst. for NN1G

Dave Benson sent me the following instructions for building and aligning the

NN1G 20 meter transceiver that he describes in the Jan. 93 issue of QRP Quarterly. Danny Stevig, of Dan's Small Parts and Kits, 1935 S. 3rd W. #1, Missoula, MT 59801 Phone 406-543-2872 is selling a kit that consists of pcboard, all pcboard parts and variable capacitor for \$49.95. No I don't get a cut, or rate, just providing info. Here is the information that Dave sent me.

BUILDING AND ALIGNING THE NN1G 20 METER TRANSCEIVER
FROM JAN. 93 QRP QUARTERLY
By Dave Benson, NN1G

Building Tips:

1. Use sockets for the IC's. The added lead length isn't too critical at these frequencies, and troubleshooting/replacing these devices becomes much easier.
2. Check the 10.7 MHz transformers for winding continuity with an ohm meter before you solder them in. An open winding isn't that easy to track down (especially without test gear). You'd be surprised how often the parts are defective, even when new! By the way, it doesn't take much DC current to burn the windings out, so try to avoid inadvertant shorts to power/gnd if you need to troubleshoot.
3. Transformer winding polarities are non-critical.
4. The LO inductor L1 is tricky. It installs in the receiver board as follows: With the board component side up, the coil goes in the upper right hand corner. Take the wound toroid with the tap towards U1 and the ground end on your right and the hot end on the left. Looking straight down, the ground end of the coil is on the right, the hot end on the left and the tap on the side towards U1.

Suggested Alignment Procedure:

Starting with the Receiver Board

1. Connect headphones to the RX audio output and apply 12-14 VDC power. Some background noise should be heard in the headphones.
2. Peak IF output transformer (T4) for maximum audio output.
3. Use a signal from a main station transmitter to find the receiver's operating frequency. This will be a function of the HFO frequency, which will nominally be about 4 MHz. Due to individual component variations each oscillator will be different and will need tweaking. fine adjustments may be made by squeezing or stretching the turns of the LO's L1. If this doesn't add or subtract sufficient inductance to get the LO to the desired frequency, it's necessary to adjust the component values to bring it in.

To RAISE the receiver frequency: Subtract a turn at a time from L1 and retest and tweak after each turn.

To LOWER the receiver frequency: Add a small fixed capacitor in parallel with C1, the LO's main capacitor. Small ceramic disks will be OK,

although the NPO variety (the kind marked with a black tip) will ensure the best frequency stability. (It's possible to add turns to L1 to accomplish the same effect, but that is a pain in the neck!)

It should also be possible to add a small trimmer cap on the backside of the board (again in parallel with C1) if you want an easy variable adjustment. I haven't tried this though.

4. Open the connection between the Transmitter antenna pickoff circuit and the Receiver's RF Input (labeled "RF IN" on the schematic). Connect an antenna to the Receiver "RF IN" Point.
5. Peak T1 and T2 for maximum received signal strength. You should now be hearing 20M signals if the band is open.
6. As you tune through CW signals, the peak audio response will probably be wrong. Adjust BFO capacitor C2 until peak audio response occurs at normal CW listening frequency (about 800 Hz.). If the BFO is capable of tuning either the upper and lower, pick the one which gives better rejection of other-sideband signals. (These simple filters aren't symmetrical with respect to their skirt selectivity.) It's possible to add or subtract turns to the BFO tuning coil L2 judiciously to change the BFO range.
7. Ground the Receiver "KEY" input to check that feature. (The transmitter Key input should be disconnected for this step.) The audio should mute smoothly and return rapidly after the connection is opened.

This completes the receiver board alignment.

Transmitter Alignment:

8. Restore the "RF IN" connection between the RX and TX boards and install a dummy load on the transceiver antenna connection.
9. Ground the transceiver "key" input with a string of dots from your keyer. A sidetone should be heard in the Receiver headphones. This corresponds to a sample of your own transmitted output. Adjust the TX Mixer frequency by tuning capacitor C3 until the sidetone matches the receiver's peak audio response frequency. You should be able to tune the sidetone through zero beat. Make sure that you select the louder of the two signals to peak on. (If there isn't sufficient tuning range, see step 6) above and try the other sideband.)
10. Find the transmitted signal on a main station receiver and tune transformers T5 and T6 for peak signal (you may need to add a clip lead to Q6's collector (case) to get sufficient signal level in the early stages of this tuneup. These two adjustments are somewhat interactive so alternate between the two several times for best results.
11. Final peaking of T5 and T6 should be done with an SWR meter in the "forward" position, or with an RF probe to maximize output power.
12. Let the key up, remove the dummy load, and reconnect an antenna. Peak the receiver response by tuning the TX board C4 for maximum signal. Be sure to use an insulated tuning tool. (This is a high-Q network and body capacitance will spoil the adjustment.)
13. We're almost done! Tune in a 20M signal on both this transceiver and

your main station rig (separate antennas) until both audios are at the same pitch. Key the transceiver. If it's not at the same pitch in the main station rig, adjust TX mixer C3 trimmer cap until they match. This last step ensures that the transmitted signal is exactly zero beat with other stations. (This also verifies that you didn't accidentally select the wrong sideband in step 9.

Other niceties:

14. If the sidetone volume isn't to your liking, feel free to change with the existing 1M resistance value across Q2's drain/source.
15. If transmitted power output is low, try increasing the value of capacitance at Q5's emitter cautiously. (Increase it only enough to get the rated 1.5 watts output.)

73 and QRP DX! - NN1G, Dave Benson

Ok, there you have it from the horse's mouth. Hope it helps. 72, Doug, KI6DS

From qrp-request@Think.COM Thu Jun 24 14:09:24 1993

Date: Thu, 24 Jun 93 17:57:24 GMT

From: jkearman@arrl.org (Jim Kearman)

Subject: Anonymous Musings

I share some of the postings on the QRP and boatanchor groups with a fellow staffer. The recent thread about boatanchorholics somehow precipitated this response from this staffer, who has given me permission to distribute it. BTW, have y'all been reading the new rec.radio.amateur.homebrew group? Barely born and already flame wars are breaking out!

+

+Well, one of my hobbies is raising butterflies and moths each summer.
+It costs nothing; you just find the eggs/caterpillars, raise them in
+any old jar or Tupperware ready to hand, and let them go when they're
+ready. Low-cost (no-cost), utterly and endlessly magic, and
+satisfyingly spiritual.

+

+It would be fun to start from zero. That is, to assume one had no money
+and no radio parts (not no tools; people generally have them for other
+reasons, inc soldering irons) and to come up with working TX and RX
+functions merely by snagging junk that drifts by. I may be wrong, but I
+believe that I could make an unarranged nonlocal ham radio contact merely
+by cannabilizing a junked radio/cassette recorder or three, maybe with
+the help of something junked that includes a motor (for coil wire). A
+junked TV would probably give me a marker/source on 3579.545; many
+devices use ceramic resonators for that freq anyway. (But on-air
+signals are just as legit.) Just a crystal set with a BFO can hear loud
+CW (that's all many boatanchors use for information recovery,

+followd by a bit of audio amplification). Piece of cake to use the
+audio amp in a radio/cassette box, though.
+
+To paraphrase John Paul Jones, "We have not yet begun to
+imagine." As I said in an earlier email, it's hard for me *not*
+to find enough *free* stuff to keep me happily engaged with
+radio. Thinking that the hardware one uses has got to be in or of
+hamdom (from *whatever* era) is like being a deer transfixed by
+headlights. All you have to do is close your eyes, turn 90 degrees and
+jump. The spot you jump from is tiny compared to the vastness and
+variety of the possible places to jump to, and yet as long as you're
+hypnotized, the headlights blot out the rest of the universe and
+you wonder if, in jumping, you may be letting go of life itself.
+Yet struggling free of the headlights is *everything*; in doing so,
+you regain *yourself*. (You also get to learn something different about
+headlights as they pass by you instead of over you--a good thing
+to get used to experiencing if you intend to remain a living deer.)
+

From qrp-request@Think.COM Mon Aug 23 08:29:46 1993
Date: Mon, 23 Aug 1993 08:28:00 +0000
From: "Michael (W.M.) Babineau" <babineau@bnr.ca>
Subject: re:Want Ten Tec OMNI elmer / help!

Clark :

You might try calling the Ten-Tec Service Dept. I heard that these guys are
really good and will help you out over the phone. I don't have the number but
I'm sure someone else on the net does.

Michael

```
+++++
|Michael Babineau          | BITNET: babineau@BNR.CA          |
|Bell Northern Research Ltd.| UUCP  : ..!uunet!bnrgate!bmerh812!babineau |
|Ottawa, ON. CANADA       |      ..!psuvax!BNR.CA.bitnet!babineau |
+++++
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From qrp-request@Think.COM Tue Jul 20 10:08:38 1993
Date: Tue, 20 Jul 93 09:08:25 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: antenna review by Doug

Doug,

good review. i have the hamsticks also and have for many years. in fact, two are still in the wrapper. i have used the 40 and 20 meter versions with good luck. for 10 meters i use a mag mount CB center loaded whip. i got the whip for about \$25 at a truck stop. the centered coil is made of steel and this baby will take a KW. ever heard of a truck driver running qrp? notice on 10 meters mobile when truckers are near there is a lot of SSB splatter on the low end? notice that the receiver front end overloads all the time? i do. :-)

i was thinking of bringing my OHR 20 meter qrp rig to work and during lunch going out to the pickup truck and working 20 qrp. but it's just too darn hot in texas this time of the year.

40 meters was open this morning to JAs, VKs, ZLs, and the pacific. called JH but he went back to a 0 in kansas. didn't have time to try for the others.

72

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Wed Jul 28 10:27:08 1993
Date: Wed, 28 Jul 93 14:21:30 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Antenna Switch

Clark, WA3JPG, asks about MFJ antenna switches.

Personally, for <100 watts, any old rotary switch in a box is more than adequate, assuming the SWR isn't insanely high. Time to hit the hamfests, or, <gasp> Radio Shack!

Jim

From qrp-request@Think.COM Wed Jul 28 11:44:48 1993
From: Bill Splaine <bsplaine@mtmtl.sr.hp.com>
Subject: Antenna Switch
Date: Wed, 28 Jul 93 8:44:39 PDT

I have successfully used a PAIR of B&W switches.. mine happen to be the rear connector units.

The six connectors on the other switch go to a Dummy Load, Tribander and a variety of dipoles....

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rig 1 ----- a                               a -----Dummy Load
rig 2 -----|                               |-----Quagi
rig 6-f             b                       f             b----Tribander

               ctr-----ctr
rig 3 -----|                               |-----12m dipole
rig 5-e             c                       e             c----30m dipole

rig 4-----d                               d-----17m dipole

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Bill, N6GHG

"In the beginning there was nothing. And God said, 'let there be light'. And there was still nothing, BUT you could see IT!" -Anonymous

[illegible]

From qrp-request@Think.COM Tue Aug 10 14:41:22 1993
From: Jay Freeman <freeman@eagle.sangamon.edu>
Subject: Anyone built a Tejas xcvr kit?
Date: Tue, 10 Aug 93 13:49:18 CDT

Hello:

I am thinking of getting one of these kits. Does anyone have any experience with them? How's the performance etc.?

Tnx es 73,

Jay

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+++++
+ Jay Freeman, WT9S          Packet: wt9s@w9yci.il.usa.noam      +
+                               internet: freeman@eagle.sangamon.edu +
+++++
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From qrp-request@Think.COM Sat Jul 10 17:49:30 1993
Subject: Argonaut 509
Date: Sat, 10 Jul 1993 14:48:47 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Howdy all:

The discussion about the desire for "successors" to the Argonaut series in between the 515 and the Argonaut II has me thinking - could I revitalize my 509 to put it up to my expectations? The 509's are plentiful and still reasonable (on occasion!). What would I want for my 509? I am mainly a SSB operator, but have significant interests in CW also.

Improved selectivity for SSB - need 8 poles.

Crystal filter for CW, 400 HZ or so.

Built in keyer for CW operation.

Speech processor for SSB.

Better receiver AGC!

Better dial-string (ick) design - causes backlash and slow drift.

Improved bandswitch design....it is mechanically joined and loosens up - hard to clean, this seems to cause some drift, too.

Well, this is a real wish list....I will certainly not do anything about the bandswitch or the dialstring! (Under threat of death from many local QRP'ers - they will NOT tolerate me tearing the 509 up for my own selfish desires!)

The selectivity on SSB should be simple. Get another 4 pole from Ten Tec (or another source) and cascade it with the normal 4 pole filter in the rig. I plan to do this next week.

A crystal filter for CW operation....now I must install a switch, and find

a good source. I believe Ten Tec filters are being closed out by AES and we might get a good CW 9 mhz filter for cheap. I will look into this.

I have an old Waters Compreamp (anyone else remember these guys?) that I can pull the board from and mount it inside the Argo without much trouble.

The keyer is a simple addition. No problem there.

The AGC is something I don't know much about. Anyone else ponder this much? Would be nice to tighten it up so that strong signals do not blow me over.

Also, anyone else able to cure / slow the drift that occurs in the Argonaut 509. It is not bad, but would just like to get to it. I have a pal with his own 509, and it is stable as a rock. I am jealous.

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
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Irvine, CA. 92717 Irvine, CA. 92715
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WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Fri Aug 13 22:02:21 1993
Subject: Argonaut question and other ramblings
Date: Fri, 13 Aug 1993 19:00:39 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Howdy:

I am chomping at the bit waiting for the NN1G 30 meter version.....
AND just got notice that my R2 / T2 boards will be here soon :-)
so, finishing my Ph.D. this year should be a breeze (not!). Ham radio
is too much fun.

Anyway, I am working on my new (old) OMNI-C to fix the receiver on
160...and I have it figured out now. Some fixed capacitors in the
Rx trimmer board have gone south. But my question is: anyone know
how critical the alignment procedure is for the Argonaut / Ten Tec
receivers? They indicate you need some good equipment, and that you

temporarily solder capacitors in on the trimmer board, then remove it....and then bring up the signal and adjust....and stuff. I wonder if anyone has done that AFTER just plain doing it "by ear" and "s-meter" and how critical does it look? I plan to realign my OMNI, and I plan to realign my Argonaut 509, pretty much the same stuff. Just wanted to know if I should try to get over to Gordon West's house to borrow his radio lab to do this, or whether I can handle it adequately here at home.

AND, I am, once again, impressed by Ten Tec service over the phone. John McCoig helped me diagnose my problem over several days and calls. He is gathering the parts for me now. Nice stuff. Also, once again, I love the discrete components on boards - I can fix it myself if I take the time. Feels good to fix my own radio.

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
Irvine, CA. 92717 Irvine, CA. 92715
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Wed Aug 25 14:57:37 1993
Date: Wed, 25 Aug 93 13:57:18 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: ARK40

Jeff, AC4HF, and Jim, WD9EYB,

the ARK40 is the rig that i was talking about that i saw at hamcom in dallas in june. Dick ????? owner and designer was here showing it off. it sounded great and worked great in the QRP ARCI hospitality suite in arlington.

Jim is right, the thumbwheel switches aren't for everybody. i don't care for them myself. may be ok on HT's, but not on HF gear INHO.

the quality is very good and like Jeff said, the docs are

great. CAD drawings and all.

let us know how you like it Jeff.

ciao,

dit dit

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

From qrp-request@Think.COM Fri Aug 13 15:53:10 1993

From: "Kevin Anderson" <GGANDERSON@augustana.edu>

Date: 13 Aug 93 14:55:42 GMT-500

Subject: Atlas Radio

Earlier I believe I had posted (maybe I'm just dreaming) a note to this group about Atlas Radio products. Anyway, Herb and Atlas Radio are still in business, and I just received a blurb on their new Model 310 Radio, which is normally a 100-watt plus transceiver, but is front panel control reduced to 5-watts. Just like information was provided to this group earlier about Ten-Tec's Scout, let me through this out to you.

Thanks.

Kevin Anderson

=====
ATLAS Radio introduces....The NEW Model 310 HF Tranceiver
for SSB, CW, Packet and Amtor.
=====

* Features DDS (Direct Digital Synthesis) Frequency Control.

* COVERS ALL 9 AMATEUR RADIO HF BANDS: Transmits and receives from 1.8 to 29.7 Mhz, and includes MARS and CAP frequencies. It will also receive all the HF Marine frequencies, as well as short wave broadcasting. (Note: As a transmitter, the 310 is designed only for amateur radio bands. It is not type accepted for transmission in the marine frequencies.)

* POWER OUTPUT: 150 watts PEP in SSB mode, 120 watts on

CW, 80 watts on Packet and AMTOR. No transmitter tuning is required. Power is panel adjustable from 5 watts to full power. Rated power output requires 13.8 volts DC at the rear power connector with full transmit power. Lesser voltage will reduce power accordingly.

* DIGITAL FREQUENCY DISPLAY: 7 digit readout to 10 Hz increments. Digits are LCD (liquid crystal display) 0.4 in. high, are back lighted for easy reading in light or dark surroundings.

* STANDARD FEATURES INCLUDE:

- a) Break-in CW keying
- b) Upper/lower sideband selection
- c) PBT, Pass Band Tuning control
- d) Internal speaker, top mounted
- e) Noise blanker
- f) The DDS has dual frequency capability which permits separate transmit and receive frequencies anywhere in the band, as well as the advantages of RIT

* DDS, Direct Digital Synthesis, is a state-of-the-art system for generating the injection frequency required by the receiver front end mixer. The DDS chip is a product of Qualcomm, a San Diego, California company. It provides an extremely clean and stable output to the mixer, in both receive and transmit modes. The mixer is a Mini-Circuits component which assures high standards of receiver performance. Typical Receiver Specs: .25 microvolt sensitivity, Dynamic Range: 134 db, 3rd Order Intercept: 18 dBm. There is NO PLL (Phase Lock Loop).

* SINGLE CONVERSION SUPERHETERODYNE. The DDS LO output converts the received signal to an Intermediate Frequency of 9 Mhz. A bank of 7 band pass filters provide more than 85 db image suppression. Each filter has 9 poles. Single conversion provides superior performance to multiple conversion, and enhances the KISS principle.

* SWITCHABLE CRYSTAL FILTER: Standard feature provides choice of 3 band widths: 2.7 khz for normal SSB, 1.8 khz for narrow SSB in crowded band conditions, and 0.6 khz for narrow band CW. 6 to 60 Shape Factor is 1.4 to 1 in the 2.7 khz bandwidth position.

* DC POWER REQUIREMENTS: 12-14 volts at 500 Milliamps for receive, up to 22 amps for transmit. Average with SSB

modulation will be approx. 8 amps.

* PHYSICAL SPECS.: 9 in wide, 3.5 in high, by 9 in deep.
Total weight, less power supply, 8 lbs.

* FACTORY DIRECT INTRODUCTORY PRICE: \$795

* OPTIONS:

Power supply Console for 110/220 volts AC, 50-60 Hz \$189
(plugs directly into the back)

Deluxe Mobile Mount (into which the Atlas 310 plugs) \$ 69

MADE IN THE USA

ATLAS RADIO CO.
1556 Lower Lake Ct.
Cardiff, CA 92007
(619) 944 - 9622

Disclaimer: I am not in any way affiliated with Atlas
Radio,
nor do I have stock in the company, own any of their
products,
will not receive compensation for providing this
information,
nor in any way recommend or not recommend this product.

=====

* * * * *
* Dr. Kevin L. Anderson, Geography Dept., Augustana College *
* Rock Island, Illinois 61201 USA phone: (309) 794-7325 *
* e-mail: gganderson@augustana.edu or kla@helios.augustana.edu *
* * * * *

From qrp-request@Think.COM Mon Jul 19 12:36:17 1993
From: "Kevin Anderson" <GGANDERSON@augustana.edu>
Date: 19 Jul 93 11:34:38 GMT-500
Subject: Atlas Radio transceiver

While at the mall bookstore the other day, I was thumbing through CQ
(I think that was the magazine, and not 73) when by the article on
WARC bands I saw an add for an Atlas Radio transciever for (gulp)
about \$800 plus more for power supply that could do 5 watts by front-
panel dial, but normally ran higher than that.

Anybody familiar with Atlas Radio products, particularly this one?

kevin

```
* * * * *
* Dr. Kevin L. Anderson,  Geography Dept.,  Augustana College *
* Rock Island, Illinois  61201  USA      phone: (309) 794-7325 *
* e-mail: gganderson@augustana.edu  or kla@helios.augustana.edu *
* * * * *
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From qrp-request@Think.COM Mon Jun 28 14:27:08 1993
From: mvjfm@mvubr.att.com
Date: Mon, 28 Jun 93 13:59 EDT
Subject: Battery FD

Low Battery Voltage ?

Radio Shack sells an analog 15 volt DC panel meter.
It consists of a sensitive meter with a series
resistor. Leave it connected to the FD battery
terminals using a couple of RS clip leads.

I used it to monitor gell cell voltage for the Argo 509.

Also,
QST had a neat little expanded scale voltmeter project,
perfect for monitoring 12 v. batteries a couple of
issues ago. Maybe under Tech Correspondence.

The Argo 509 voltage dropped from 13.8 to 13.4 v over
the entire period. We used the speaker, which draws
more current, er.... uses more power than phones do.

NOTE !!!

Be sure to put an in-line fuse inside your HW-8
or HW-9, between the on-off switch and the power
connector. And tape spare fuses inside the cover.

A friend learned the hard way that when the battery
gets accidentally reversed, all expensive, and hard to
get devices sizzle and smoke.
On the positive side though, they only smoke for a instant.

With the Argo 509 (it is fused), the small battery voltage dropped from 13.8 to 13.4 v over the entire operating period. And we used the speaker, which uses more power than phones do.

72, Jim - W1FMR mvjf@mvubr.att.com

From qrp-request@Think.COM Tue Jul 20 10:47:15 1993
Date: Tue, 20 Jul 93 09:47:07 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Boyd Electronics

since this group has a bunch of experimenters:

anyone have a Boyd Electronics RSG-30? its a 2-30MHz sweep generator with output of 100mV RMS. kit price is \$59.95. this without case and hardware.

just another toy to play with Cohn filters and experiment. i'm open to suggestions. EdP?

thanks in advance,

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Aug 26 22:05:11 1993
Date: Thu, 26 Aug 1993 21:04:52 -0500
From: Arnett <aaa33750@uxa.cso.uiuc.edu>
Subject: CB conversions

Thanks to Mike KE4PC for the info! Some of us in town had considered converting some CB's but conversions don't warrant too much work, especially considering the number of articles out there.

Looking up some of the articles, I also found the CB to 6m conversion article in the Feb 85 issue of 73. Looks like a bit more work, but an interesting experiment.

73
Drew Arnett kb9fko@uiuc.edu

From qrp-request@Think.COM Fri Jul 30 02:12:18 1993
Date: Thu, 29 Jul 93 20:12:06 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: CB to 10 or 12 meters

Gang,

Radio Shack has one of their CB's (blah) on sale for \$40. It is so tempting to get one and try to put it on either 10 or 12 meters CW. But I've heard that it is next to impossible to do anything with the PLL generated frequencies. Can a transverter be built and placed before the final amp? Say mix a 1 MHz oscillator with the synthesizer output to give the amp a 28 MHz signal (filtering out the 26 meg signal). Or am I in dreamland even considering such an idea...

Jeff, NH6IL

From qrp-request@Think.COM Mon Jun 21 20:50:49 1993
Date: Mon, 21 Jun 93 14:50:38 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: changing xtal freqs by pencil and sanding

Aloha everyone,

I remember my old 1965 or 66 edition of the ARRL's UNDERSTANDING AMATEUR RADIO talking about how to change the freq of an xtal by the previously mentioned techniques; gosh how the years fly by.... I'll have to ask my mother to send me that book and see what other little recipes are in there.

As I mentioned last week, I've come across a couple of books that contain a goldmine of easy-to-build QRP circuits; xmtrs and rcvrs, and other goodies. Both books are out of print. I'll attempt, from time to time, to 'draw' the schematics and send them along via the net. These should be really fun to build and play with.

Jeff

Jeffrey Herman, NH6IL, University of Hawaii Mathematics, jherman@hawaii.edu

(dang, I wish I would have kept my old call from California: WA6QIJ)

From qrp-request@Think.COM Wed Jul 7 17:25:30 1993
From: majec@cactus.org (Majec Systems)
Subject: charging gel cells
Date: Wed, 7 Jul 93 16:25:17 CDT

HI ya'll:

I am looking for the perfered way to charge gel cells. I have several 4.2 aH gel cells, a 250 milliamp meter, a 14.3 volt power supply and some resistors. How should I use them. All opinoins are welcome.

By the way I was hammering away on 7110 khz at 1800 utc last sunday but made no contacts. Where were you guys.

Ed Guinn
KB5RUF

Little "dit dit"(15 wpm and climbing)

From qrp-request@Think.COM Mon Jun 21 13:33:13 1993
From: Stan Witherspoon <stan@hprstw.rose.hp.com>
Subject: re:schematic capture & pcb layout prog
Date: Mon, 21 Jun 93 10:33:05 PDT"

To All,

I got a copy of PADS from the location below. I can't comment on it yet as I haven't really used it yet.

If you want a copy, let me know and I'll try to figure out how to get it to you. I have also heard that you can get a copy directly from the company as a demo. The files are about 2.5 MB compressed.

72 stan

----- Copied text -----

.srgskwv@grace.dsir.govt.nz writes:

.
.>Does anyone know of pd/shareware programs for producing artwork
.>for printed circuits. If there is no freely available software
.>then perhaps a list of commercial packages could be given.

.
. There is a version of the PADS schematic capture and PC
.board layout package that is freely shareable. It is available
.on simtel20;

.
.PD1:<MSDOS.CAD>PADSLIB.ZIP libraries
.PD1:<MSDOS.CAD>PADSLOG.ZIP schematic capture
.PD1:<MSDOS.CAD>PADSPCB.ZIP PC layout

. I have used them and they are great. The only limitation
. is in the size of the design; number of IC's, number of nets, etc.
. I am in no way associated with PADS software but just like
. their product. I don't have their regular package so all my work
. is done with their shareware version.

[illegible]

— —

```

~ Stan Witherspoon      Hewlett-Packard Co.    (916) 785-5071      ~
~ stan@hprpcd.rose.hp.com Systems Technology Division ~
~ Stan (hprpcd) /HP5200/UX 8020 Foothills Blvd.  Roseville, CA 95678 ~

```

From qrp-request@Think.COM Tue Jul 13 09:41:01 1993
From: mvjfm@mvubr.att.com
Date: Tue, 13 Jul 93 09:37 EDT
Subject: CMOS Super Keyer II

I received the Super Keyer II kit from Idiom press last night. Very prompt delivery.

11 pages of Tutorial, 9 pages of Operations Manual
and 2 page for schematic/board layout included.

Very impressive !

KZ1L brought 2 versions of his keyer to FD and I loved them.

Thank you gang for the adr and info.....

Waiting for the Spider...

I gave N1CUU a copy of a disk saved from Internet for information for "72" the QRP-NE newsletter. I will have to ask permission after the fact, when I see what he has printed.

I will coordinate better for the next issue.

72, Jim - W1FMR

mvjf@mvubr.att.com

From qrp-request@Think.COM Wed Jul 14 12:04:24 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 14 Jul 93 08:47:33 PDT
Subject: RE: CMOS Super Keyer II

And what happens is someone refuses permission.

I think this is a serious mistake. Ask in advance, most people say yes.
Some say no. I know because I do it all the time.

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From: <netmail!mvjf@mvubr.att.com>
To: <QRP@Think.COM>
Subject: CMOS Super Keyer II
Date: Tuesday, July 13, 1993 9:37AM

I received the Super Keyer II kit from Idiom
press last night. Very prompt delivery.

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for "72" the QRP-NE newsletter. I will have to ask permission
after the fact, when I see what he has printed.

I will coordinate better for the next issue.

72, Jim - W1FMR

mvjf@mvubr.att.com

From qrp-request@Think.COM Mon Jun 21 08:57:05 1993
From: mvjff@mvubr.att.com
Date: Mon, 21 Jun 93 08:24 EDT
Subject: Colorburst 79er

Gang, 6/21/93

I talked with Dave, NN1G, Friday evening, and asked him why FAR cannot supply Colorburst rig PC boards.

Dave said that FAR circuits returned the artwork to him after the original order for 50 boards.

That is why FAR does not have the artwork now !!!

Dave said he will ship the artwork back to FAR this week.

PC board QRP-NE #1.

PS.....

Dave also said that one of our more ambitious, personable Internet members is about to become internationally famous in the QRP world.

I cannot mention a name, but as soon as it becomes official from ARCI, and confirmed by the rest of the board, I will.....

72, Jim - W1FMR mvjff@mvubr.att.com

From qrp-request@Think.COM Sat Jun 19 13:08:02 1993
From: jjw@precipice.chi.il.us (John Welch)
Subject: Colorburst Transmitter help needed
Date: Sat, 19 Jun 1993 12:02:32 -0500 (CDT)

Fred (FAR Circuits) doesn't recall the colorburst transmitter that's been discussed recently. We've been told it was the QRP-NE#1, but that still doesn't ring a bell with Fred.

Perhaps the board was done for an individual, who asked Fred to do a run of 50 or so, and Fred sent the artwork back with the boards. Or maybe Fred just mis-filed the artwork. In any case, he cannot find the artwork for this board.

If anybody has a copy of the article, and the board layout, please send it to Fred at FAR Circuits 18N640 Field Ct Dundee Il 60118. It will be of great help to those needing the board for this transmitter.

Fred says Thanks in advance.

(we have it easy - we live about 15 miles from Fred, and he's been very helpful getting boards ready for various articles and whatnot for us, while we've kept his drilling machine computer running for him. :-)

--

John Welch, N9JZW

From qrp-request@Think.COM Fri Jul 16 09:51:15 1993
Date: Fri, 16 Jul 1993 08:50:50 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: contest

All,

Isn't this weekend the ARCI QRP contest?

I am desperately trying to finish my Quad.. about .00001% chance.. but worth a try... I have both elements built.. just need to tweek the driven. .finished it about 2 seconds after the beginning of a major thunder storm.. got up at 6am and adjusted it a little better.. putting it together was the easy part. Getting the mast and the antenna up and all the rest of the stuff is going to be fun.

72

Jeff, AC4HF

From qrp-request@Think.COM Fri Jul 30 11:11:45 1993
Date: Fri, 30 Jul 93 10:11:03 CDT
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: converting CBs

Jeff NH6IL wrote commenting about a CB at Radio Shack for \$40 and how it would be neat to convert it to 10 or 12 meters. During the late seventies 73 magazine had a bunch of articles on converting CBs built with a type of mass produced board to 10 AM and FM as well as 10CW. I believe I also saw an article on converting one to 12 meters not too long ago. The boards were built by a Japanese manufacturer and were used by Kraco, HyGain and Midland in several of their radios. You can get these radios for next to

nothing at flea markets. I've got several and usually give between \$1 and \$5 for them. I've done the 10FM conversion and even worked Seattle with on (5 watts mobile!!) If you guys are interested I'll post more info on what models to look for and where the articles (month year) are at.

Mike KE4PC

From qrp-request@Think.COM Sat Jul 31 15:47:42 1993
Date: Sat, 31 Jul 93 14:46:57 CDT
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: converting CBs

Gang,

There are many CBs which are modifiable to ten FM, AM, SSB or for use on CW. There are also many articles on the subject. There are a few personal favorites I have so I'll stick to those. Actually any CB can be modified for use on Ten... it just depends on how much trouble you're willing to go through. Now I'm a fairly lazy type of person and try never to overextend myself. In other words, the CBs I convert have to be easy to do AND inexpensive. The two types of conversions I've done are moving an AM CB to Ten FM and moving a SSB CB to Ten for SSB use. The conversions to Ten FM can also be converted to Ten CW for even less.

The Ten FM conversion requires one crystal, an FM detector board, several cuts and adds to the CB board and a realignment of the CB. The same conversion to Ten CW could be done with one crystal, a 455khz BFO oscillator, several cuts and adds to the CB board and a realignment of the CB board.

Here is a list of AM CB radios that are excellent candidates for either conversion:

Manufacturer	Model	Manufacturer	Model
Hygain	#1A	Lafayette	HB650
Hygain	#2A	Lafayette	HB750
Hygain	#3A	Lafayette	HB950
Hygain	#4A	Lafayette	Micro 223
Hygain	#9A	Lafayette	Micro 223A
Hygain	2681	Lafayette	Comphone 23A
Hygain	2682	Lafayette	Telsat 1050
Hygain	2683	Pierce Simpson	Tiger 40A
Hygain	681A	Pierce Simpson	Tiger 23 MkII
Hygain	682	Midland	13-882C
Kraco	2310B	Midland	13-857B
Kraco	2320B	Midland	13-888B
Kraco	2330B	Midland	13-830
Kraco	4010B	Midland	13-955
Kraco	4020B		

Kraco

4030B

There are probably many others available, but these are the ones I know about. The most important thing to look for is inside the radio (don't forget your screwdriver!). In each of these radios there should be, just behind the channel selector, a PLL02A chip. If the radio you're looking at doesn't have this chip, don't buy it. This is the easiest board to convert. (Gosh I feel an article coming on!) <g>...

More later ! Mike KE4PC

From qrp-request@Think.COM Sat Jul 31 15:48:04 1993

Date: Sat, 31 Jul 93 14:47:21 CDT

From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)

Subject: converting CBs

Gang,

Here's a list of articles in 73 magazine which tell how to convert various CBs to Ten. Some of the articles are for SSB, some for AM and some for FM. There's even a couple on CW conversions.

Issue	Type	Radio	PLL
July 1977	SSB	Radio Shack TRC-47	No
July 1977	AM	Johnson 123A	No
July 1977	AM	Hygain 670B	No
December 1977	AM	Radio Shack TRC-11	No
February 1978	AM	Publicom I	No
July 1978	SSB	Kraco KB-2355	No
August 1978	AM	Radio Shack TRC-11	No
August 1978	AM	Radio Shack TRC-74	No
September 1978	AM	Radio Shack Mini23	No
September 1978	AM	Hygain 681A	Yes
October 1978	AM	Kraco KCB-2310B	Yes
November 1978	SSB	Lafayette Telsat SSB-75	No
November 1978	AM	Radio Shack TRC-542	Yes
November 1978	AM	Radio Shack TRC-180	No
January 1979	CW	Sharp CB-800A	Yes
January 1979	SSB	SBE Sidebander III	Yes
January 1979	AM	Pace 123A	No
May 1979	AM	Hygain/Kraco/etc	Yes
June 1979	SSB	Lafayette SSB-75 and 100	No
November 1979	SSB	Johnson Viking 352	No
November 1979	AM	Royce 1-655	Yes
January 1980	FM	Lafayette	Yes
March 1980	SSB	Sears Roadtalker 40	Yes
April 1980	SSB	Penny's Model 6246	Yes

June 1980	AM	Poly Paks Surplus	Yes
July 1980	SSB	Cobra 132/135	Yes
July 1980	SSB	Midland 79-893	Yes
July 1980	SSB	President Grant	Yes
July 1980	SSB	Cobra 138XLR	Yes
July 1982	CW	Hygain (various)	Yes

(whew!) Mike KE4PC

From qrp-request@Think.COM Fri Jul 30 21:55:16 1993
 From: andrews@fmsystm.ncoast.org (Andrew Sargent N80FS)
 Subject: Re: converting CBs
 Date: Fri, 30 Jul 1993 20:07:02 -0400 (EDT)

> Jeff NH6IL wrote commenting about a CB at Radio Shack for \$40 and how it
 > would be neat to convert it to 10 or 12 meters. During the late seventies
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 > of mass produced board to 10 AM and FM as well as 10CW. I believe I also
 > saw an article on converting one to 12 meters not too long ago. The boards
 > were built by a Japanese manufacturer and were used by Kraco, HyGain and
 > Midland in several of their radios. You can get these radios for next to
 > nothing at flea markets. I've got several and usually give between
 > \$1 and \$5 for them. I've done the 10FM conversion and even worked
 > Seattle with on (5 watts mobile!)- If you guys are interested I'll post
 > more info on what models to look for and where the articles (month year)
 > are at.

> Mike KE4PC

>

Oi!!! Got any mods to convert older CB's to 6 meters. It seems to me
 that I saw an article in one of those 'Illegal CB books' (gasp) :) .

Every ham should buy all the old SSB/AM CB's they can, and sit on them
 so the CB'ers can't use them for their illegal activity.

The FCC (one of the rare times I wil praise them) has made manufactures
 of CB's use more 'touchy' PLL's...

73 de (everyones enemy) N80FS (blackballed from everything)

--

..

..

From qrp-request@Think.COM Tue Aug 3 13:30:32 1993
Date: Tue, 03 Aug 93 17:04:18 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Copyrights

Chuck writes:

>some have volunteered back articles from QST, 73, HR (Ham Radio), and
>others....

(Putting on my "official" hat:)

I would very, very strongly suggest leaving out any articles from these magazines, unless you get written permission for each and every one. CQ Communications owns the rights to Ham Radio magazine material now. I know to you guys this is just a hobby, but it's some people's livelihood. Chances are you'll get permission if you ask, but this is not a case where "it's easier to ask forgiveness than permission."

Specifically, the company for which I work has published its own anthology of QRP articles, "QRP Classics." It sells well and makes us a few bucks every year. I don't think management would look kindly on anyone who did an end run and started publishing copies of our articles without permission, even if you're giving them away at cost (or _especially_ because you're giving them away!).

Our charge for photocopies is \$1 a page, \$3 for an article. I don't know how much we figure is royalty money, if any. I do know we will not copy from anyone else's magazine.

I hate to dash cold water on Chuck's project, but I'd hate to see anyone get snarled up in litigation over copyright violations.

72,

Jim Kearman, KR1S
Asst Technical Editor, ARRL

--

jkearman@arrl.org

"I never shot a man who didn't need it." --Clayton Allison

From qrp-request@Think.COM Thu Jun 24 12:19:40 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 24 Jun 93 09:16:26 PDT

Subject: RE:Scout Transceiver

[Hope you don't mind me posting the reply back to the QRP list. I think my comments have general appeal. Your message is included for context.]

That's all the info I have. I haven't even seen one yet! The message even includes the garbled characters as it was received.

In fact your questions are ones I'd like to see the answers to. I think some folks in the group (those that went to Dayton) may have seen the rig already.

Regarding 6m -- I think thats a fine idea too. VHF weak signal is great fun but it would need the finals to be cable of using that extra octave above 30Mhz. This would have to be thought of from the start so you don't design limits into the high frequency end of the PA.

Another point this seems to be a single conversion rig with a 6.1Mhz IF (this has a lot in common with the older Argonaut -- like my aging 505!) so there may not be enough image rejection for a 6m band. All the japaense rigs up convert to a 70Mhz first IF to kill image problems. This is just speculation -- if this was a high first IF rig I would have suspect they would have said.

BTW if the modules cost \$25 I think pretty much all they could contain is front end filters for the RX, LPF for the TX and a crystal hetrodyne oscillator. This would imply plugging in the module for the band you wanted to work on and removing all those funky bandswitch problems. Just speculation, but this method would keep the cost down. Its a interesting idea for homebrew rigs even if they haven't done it this way!

I expect we will hear more of it in the future -- keep watching QST. No ads for it in the July issue which arrive here yesterday.

Please let me and the group in on anything you find out.

72

Kevin Purcell N7WIM / G8UDP

a-kevinp@microsoft.com

"We conjure the spirits of the computer with our spells"

From: JOSEPH M. GRIB JR <netmail!grib@esvax.dnet.dupont.com>

To: Kevin Purcell Rho <"a-kevinp@microsoft.com"@ESDS01.dnet.dupont.com>

Cc: <GRIB@esds01.es.dupont.com>

Subject: RE:Scout Transceiver

Date: Thursday, June 24, 1993 7:07AM

Kevin,

Hello from Delaware.....I was reading the article you posted regarding the "Scout" from Ten-Tec. I had a few questions regarding this rig I hope you can answer;

a) How many bands does this rig cover? (ie. is it a monoband rig with plug-in modules, or multi-band transceiver but limited to the number of modules that you install (like most ham gear))

b) Does the rig come with any modules installed at all? (ie. installed with 40 meters, or your choice of band?)

I know the price of these modules seem to be cheap, but again was wondering about it, since it seems like a ideal rig for mobile use. Also, will Ten Tec offer a 6 meter module? I've been looking for 6 meter gear here lately, and I'll tell you, it's scarce as hen's teeth to find anything used or anything reasonably priced (less than ~ \$700). That would be a killer rig for the op's getting interested in 6 meters and VHF operation, and he/she could customize the rig to their particular interests/needs. Maybe I'll have to call Ten Tec and suggest that they look at a 6 meter module, for I'm sure that it'd blow the Japanese competition away if they came out with a 6 meter SSB/CW rig for less than \$600. I know I'd be right up there to buy one myself!!

Thanks for the info on the rig,

73,

Joe KI3B

From qrp-request@Think.COM Mon Aug 9 15:22:08 1993
Date: Mon, 9 Aug 93 15:12:50 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: Crozet Is.

FT8WA is quite a good catch on 40m, especially with only 2 watts. I was on 40m CW earlier last night but did not hang around long enough to hear him. My only confirmed Crozet contact was made on 40m some time ago.

Congrats Chuck.

Randy Randy AA2U
rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Mon Jun 21 23:14:55 1993
Date: Mon, 21 Jun 93 20:12:54 PDT
From: Tainted with Defilement <brewer@anarky.enet.dec.com>
Subject: crystal mods

I had to look twice and see whether this thread came from the boatanchors list or the qrp list. (They are very similar in that both have a high "tinker factor" but at opposite ends of the portablility scale!!!)

Ahyhoo... in my limited experience (messing around at work years ago, when I shoulda been working) wiping the end of a strand of solder over the crystal blank would also lower the freq of the unit, with more stable results than pencil lead. It did not take much pressure to accomplish this, so keep it light!

73...and keep those soldering irons hot!
/john wb5oau

From qrp-request@Think.COM Thu Jun 24 12:30:49 1993
Date: Thu, 24 Jun 93 10:53:50 CDT
From: mstrong@scrap.micro.ti.com (Mike Strong)
Subject: Crystal Sources

I am thinking about buying a Spider, but I have no crystals. The ones I had when I was a Novice more years ago than I care to think about probably went the same place as all those old baseball cards I had as a kid (but that's another story!). So, I need to find out what the recommended sources of crystals are these days. You can respond to my e-mail address, and I will publish a summary when the volume drops to a trickle.

Thanks and 72, de Mike KT5H mstrong@micro.ti.com

From qrp-request@Think.COM Fri Jun 25 06:29:30 1993
Date: Thu, 24 Jun 93 15:00:28 CDT
From: mstrong@scrap.micro.ti.com (Mike Strong)
Subject: Crystal Sources

I sent this out earlier, but I don't think it made for some reason. If you get two copies, I apologize for the bandwidth. Please use low temperature flames :-).

I am thinking about buying a Spider, but I have no crystals. The ones I had when I was a Novice more years ago than I care to think about probably went the same place as all those old baseball cards I had as a kid (but that's another story!). So, I need to find out what the recommended sources of crystals are these days. You can respond to my e-mail address, and I will publish a summary when the volume drops to a trickle.

Thanks and 72, de Mike KT5H mstrong@micro.ti.com

From qrp-request@Think.COM Sat Jun 19 23:09:36 1993
Subject: crystal with knob on it
Date: Sat, 19 Jun 1993 20:05:27 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Anyone know about old FT-243 type holder crystals with knobs on them?
I just got one that is marked 7044-7053 K.C. I have been in ham radio
for 25 years and managed to avoid them all this time. Is it a crystal
with a little cap inside?

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
Irvine, CA. 92717 Irvine, CA. 92715
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Fri Jul 9 17:09:19 1993
Date: Fri, 9 Jul 93 07:27:46 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: Cubic Incher question

Has anybody constructed a cubic incher out there using the MSPU02 or other
transistors, than the recommended? I would like to compare notes on my results.

73, (still having a hard time saying 72) Brad WB8YGG

From qrp-request@Think.COM Wed Jun 23 11:50:50 1993
Date: Wed, 23 Jun 93 10:50:34 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: current ads

just got my Ham Trader Yellow Sheets (tm) HTYS yesterday.

HW-7 with book vry clean \$65

Ten Tec Triton 4 w/power supply \$380

Wanted: mint Century 21

Ten Tec Corsaire 2 mint \$700

out of 10 pages, that was all the qrp gear. looks like the used equip market is tight for us. hold on to 'em if you got 'em. ;-)

72 de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Wed Aug 25 13:17:24 1993
Date: Wed, 25 Aug 1993 10:16:50 PDT
From: Paul_Adler.NER-OSM@xerox.com
Subject: CW Memory Keyboard for a 486 PC

Does anyone have a software program to run on my 486 PC to emulate some of the features of the AEA MM-3 keyer?

Thanks Paul KW1L

PAUL_ADLER.NER-OSM@XEROX.COM

From qrp-request@Think.COM Wed Aug 25 14:31:54 1993
Date: Wed, 25 Aug 93 18:22:34 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: CW Memory Keyboard for a 486 PC

paul_adler.ner-osm@xerox.com writes:

> Does anyone have a software program to run on my 486 PC to emulate some of the
> features of the AEA MM-3 keyer?
>
> Thanks Paul KW1L
>
> PAUL_ADLER.NER-OSM@XEROX.COM
>
>

Try "CT" by K1EA. It'll even log for you!

73, Jim, KR1S

From qrp-request@Think.COM Thu Aug 19 13:08:37 1993
Date: Thu, 19 Aug 1993 09:50:19 PDT
From: Paul_Adler.NER-OSM@xerox.com
Subject: CW Memory keyer / Keyboard

Does anyone have any experience with the MFJ Memory Keyer (MFJ 492) or any other CW Memory keyer / Keyboard?

Thanks Paul KW1L

PAUL_ADLER.NER-OSM@XEROX.COM

From qrp-request@Think.COM Mon Aug 2 00:55:39 1993
Date: Sun, 1 Aug 93 23:55:29 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Dan's Kit

i got my 20 meter kit from Dan's Small Parts and Kits on Saturday and got the boards assembled on Saturday. great kit. here are a few notes:

1. make holes larger for mounting pins on 7MM 10.7 MHz cans
2. predrill mounting holes
3. move couple of lands away from board edge where standoffs to go
4. move Y1, Y2, Y3, and Y4 farther apart on board for mica caps in Cohn Filter
5. 0.01 uF cap missing from Q4 to Q5 on transmitter board on pictorial
6. 0.005 uF from pin 1 of LM386 is shown as 0.001 in pictorial
7. pictorials don't show cathode ends on mounted diodes vertically mounted

The pictorials that i refer to above are the additional stuff that Doug, KI6DS, has that NN1G provides. Those of you who got Phase One of the Schematics have the three page article in QQ. Add 100 ohm resistor from base of Q7 to ground. Same as in the MFJ diagram. L4 should be 11T (not 4 as shown in schematic). Parts list is correct.

I have mods for 40 meters and will put them in Phase Two. I'm in collecting mode now. HINT. HINT.

Ed P.? what is the internal cap on the 7MM 10.7MHz FI Xfmrs?
if i don't find them by monday noon. tn timer.

i haven't fired it up yet. doing the mechanical work on the chassis
at the same time i'm doing work in garage and yard..... ;-) darn
summers in texas.....

didn't hear any of the gang on the qso party, but i was outta pocket
again most of the time.

you guys and girls have a good week. send SASE to
Dan's Small Parts and Kits
1935 S. 3rd W. #1
Missoula, MT 59801

nice prices.

SASE's to Dave Benson, NN1G, 80 E. Robbins Ave., Newington CT 06111
for info on xcvr and FAR Circuits, 18N640 Field Ct, Dundee, IL 60118
for circuit board info.

72 de k5fo dit dit

p.s. someone last week resigned from list. someone from EU, AK, and
other continents please jump in here. you guys and girls south
of the equator, make us feel bad because you're enjoying 40Mtrs
during your winter time!! how's DX? what kits, projects, do you
have going? the group wants to know.....

ciao,
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 9 12:26:54 1993
Date: Mon, 9 Aug 93 12:26:39 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: Danny's NN1G transceiver

FYI, I just talked to Danny on the phone, and he said that he sold 30 of those

in one month! Sounds like Danny may be in the kit business! 73 all Brad

From qrp-request@Think.COM Mon Jun 28 11:34:41 1993
Date: Mon, 28 Jun 93 10:34:25 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Dinosaurs Valley DX Society FD

Gang,

worked with group from the above club. my first outing for FD
in 8 years. tried last year, but storm squashed that.

used IC-735 with 5 w out on 40 and 20 mtrs. 20 meter 5 element
trapless up 40 ft with rope rotator. ;-) 40 meter three element
wire beam up 40 ft pointed NE from 50 miles SW of Ft Worth TX.

don't have the total but about 570 contacts or so for the test.

ops were K5MW (call used), WA5MWD, AA5SL, KD5EZ, WA5ZGC, AA5WH,
AA5UA, AA5TZ, and K5FO.

first time for me to use CT on laptop. works great. now i have
to go and figure out how to do them same at home. ;-)

i've already seen reports of bad condx, but didn't seem too bad.
didn't try 15 or 10 although i listened on 10 driving to the site.
thought it would be open, but i guess not. saw some note about
possible solar flare. may have happened.

the one miracle was the weather. fantastic! no rain no wind
and temps around 70 at nite and 90 during the day (degrees F).

ohhhh. CLASS 1A. how did the Panama City FL group do?

72 de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of
SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Jul 19 08:26:10 1993
Date: Mon, 19 Jul 93 08:26:00 EST

From: jennings@abb.com
Subject: Dr. Weber's correct zip code for sending qrp contest logs

Hi!

For all of you qrp'ers who participated in the German QRP Contest last weekend and plan to send in your log please use the following address which has the correct (new) zip code:

Dr. Hartmut Weber DJ7ST
Schlesierweg 13
D-38228 Salzgitter, Germany

Martin Zurn asked me to post it. And don't forget the September 15, 1993 deadline for logs.

So how did everybody do? I made 5 contacts: 2 in Alabama, a Ve3, RB5U0, and SM3CCT. All in an hours time.

73,
Tom kv2x

jennings@abb.com

From qrp-request@Think.COM Fri Jun 25 15:56:44 1993
Date: Fri, 25 Jun 93 14:56:35 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: DXCC - here i come

yesterday i got an envelope from the buro.

contained four cards:

VE2MAQ	july	25, 1992	14.045	CW
JA1RNH	aug	25, 1990	14.050	CW
JG3QCW	feb	17, 1990	14	CW
VE4YY	dec	11, 1982	28	CW

hint: there are NO typos in the above!

fortunately i had already qsl'd VE4YY. :-)

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jul 30 01:17:10 1993
Subject: easy way to measure swr?
Date: Thu, 29 Jul 1993 22:16:33 -0700
From: Clark Savage Turner WA3JPG <turner@sablon.ICS.UCI.EDU>

Just curious, are there very simple ways to get a rough estimate of swr for my little mini antenna tuner? I plan to take my Spider to Arizona, and have built a tiny Z-match, and wonder (don't have a small swr meter to take) if I can play games with an L.E.D. or something to try to pull down swr on a random wire without major work?

Clark
WA3JPG

From qrp-request@Think.COM Thu Aug 19 07:52:07 1993
Date: Thu, 19 Aug 93 07:45:07 EDT
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: Echo of review of Ten Tec Scout

I would just like to echo exactly the review comments of the Ten Tec Scout provided in the message from Doug Hendricks. I have now used mine intensively for almost three weeks and it is an outstanding radio. I cannot criticize anything but the minor items noted in the review. The receiver is excellent and it is a joy on CW. It held it's own in the contest last weekend as I hunted and pounced for kicks. I used it portable and used a 7 amp/hr gell cell with no problems of clicks or chirps. I also have received glowing audio reports on ssb. I consider the radio an absolute bargain for the money. Am I pleased with it -- that should be obvious -- Would I buy another? -- You bet.

73 Greg Buhyoff KN4FR -- Buhyoff@vtvm1.cc.vt.edu

From qrp-request@Think.COM Tue Jul 27 18:23:11 1993
From: "John Leroy" <tijc02!JCENG1!JKL141@uunet.UU.NET>
Date: Tue, 27 Jul 1993 17:05:12 EDT
Subject: FAQ available?

I've been listening in, hoping to see a reference to a FAQ, but no luck. Is there one available? Or a magazine list or bibliography for the newcomer? Thanks and 73.

John LeRoy WA4VLV
tijc02!jceng1!jkl141@uunet.uu.net

From qrp-request@Think.COM Wed Jun 23 12:10:24 1993
Date: Wed, 23 Jun 93 12:09:47 EST
From: jennings@abb.com
Subject: FAR found the colorburst board

Hello QRPers,

Last night I received a call from Fred at Far Circuits and he said that he found the artwork for the colorburst transmitter. Since one of my kids took the call, no price was noted. I will call and find out later today unless some one out there already knows.

Good luck on field day.

73

Tom Jennings KV2X
jennings@abb.com

From qrp-request@Think.COM Wed Jun 23 11:28:11 1993
From: mvjfm@mvubr.att.com
Date: Wed, 23 Jun 93 09:32 EDT
Subject: FD

Field day is fast approaching....

Wed. and Fri. eves will be frantic searching for missing widgets and trying to remember what we forgot last time.

After Field Day, let's spend a few minutes on the QRP frequencies and call CQ QRPI. (I for internet ?)

We could QSL via e-mail.

GL !

72, Jim - W1FMR mvjfm@mvubr.att.com

From qrp-request@Think.COM Fri Jun 25 13:07:00 1993
Date: Fri, 25 Jun 93 12:06:45 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)

Subject: FD

ok gang, a day to go before the big one.

i'll be at K5MW/5 in NTX. working for the Dinosaurs Valley DX Society.

in fact, we'll be near the Dinosaurs tracks and bones, thus i guess the name for the group. this is my first year to work with these guys. Al is an old friend from A&M, even though he's still a kid.

we'll try to stay around the qrp freqs after the test for just a bit before taking down the five element 20 mtr beam and the 40mtr wire yagi. both will be pointed toward the NE USA.

72 es gl n t tst bcnu de k5fo@k5mw/5 dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jun 25 14:14:25 1993
Date: Fri, 25 Jun 93 14:05:10 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: FD

I will be running FD for the Splitrock ARA. We will be on Sheep Hill in Boonton, NJ and will be 2A-battery. Antennas will include two 3 ele tribanders, a 10m X beam for the novice stn and dipoles for 40/80m. Our call will be K2RF. Hope to see you on the air. 73 & GL

Randy Rand

AA2U

rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Mon Jun 28 09:53:44 1993
From: mvjfm@mvubr.att.com
Date: 28 Jun 93 13:49:00 GMT
Subject: FD

Boy am I tired.... But QRP FD was worth it.

On 20m,
I worked W3TS, N4BP, and heard N6GA, N01E.

After FD,
I called CQ QRPI from 1800 - 1805 but NIL.

On 20m,
The Argo 509 worked flawlessly with the 7 AH gell
cell holding up through the entire weekend. The
corner fed Delta loop on 20m did well again.

KZ1L, with a tiny Mizhou 17 meter hand held SSB transciever
used an outbacker mobile antenna and made a number of SSB
contacts. At sunset, he could work everything he heard.
I was impressed.

Dave, NN1G brought his 40m version of the 20m rig that
appeared in QQ, and it works as good as the original
20m rig. I was impressed.

We had 9 camping out, and 2 visitors and ran 3A from WMA.

72, Jim - W1FMR mvjf@mvubr.att.com

From bruce@Think.COM Mon Jun 28 10:46:02 1993
From: Bruce Walker <bruce@Think.COM>
Date: Mon, 28 Jun 93 10:46:02 EDT
Subject: FD

I regret not joining QRP-NE for FD. I was on the air very little working
1E from home, but I wasn't feeling that well, and quite honestly, I was
bored doing it alone from home. Saturday evening, I went over to the W1FY
group for a while, which was set up about 1/2 mile from my house.

From home, I heard W1FMR at least once, calling someone just before I did.
I wanted to jump in and try to work him, but that would have been impolite
:-).

I had a really wild wormhole into ORG section on 15m Sat afternoon, working
about 6 straight, hearing none of the other CA sections during that period.

--bruce WT1M

From qrp-request@Think.COM Mon Jun 28 14:24:16 1993
From: mvjf@mvubr.att.com
Date: Mon, 28 Jun 93 12:12 EDT
Subject: FD

Gang,
We are putting together the QRP-NE Newsletter.

I will pass along any FD war stories you may have
to the editor.

The modified HW-9, with the KB1MJ filter added,
did well 99% of the time, even though the 40m QRM
was fierce, no overload. It is very selective.
N1CUU and W1FMR are pleased.

Now, there are a few other HW-9 problems.....
that we will save for another day...

I have an HW-99 Novice rig. (50 watt ~ version of HW-9).
W/built in Power Supply, 80, 40, 15, 10m cw,
it works great. Anyone seen any mods for that rig ?

72, Jim - W1FMR mvjff@mvubr.att.com

From qrp-request@Think.COM Mon Jun 28 17:58:56 1993
From: mvjff@mvubr.att.com
Date: 28 Jun 93 21:39:00 GMT
Subject: Re: FD

Harry,

The HW-9 xtal filter modification kit includes the filter
and an amplifier transistor, and all other parts and
directions needed to install it, for \$26.

The Kenwood filter may be better, but I think this filter
is adequate and less expensive. I would not want the
tuning to be any sharper. Even now, SSB signals are not
copyable because of the narrow bandwidth.

Paul Levesque, KB1MJ is the kit supplier.
He also includes directions for a simple anti-thump mod.
These mods appeared in the QQ.

I will send this to the gang just in case anyone else
wants to do it.

From qrp-request@Think.COM Mon Jun 21 14:57:00 1993
Date: Mon, 21 Jun 93 13:56:26 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: FD ARRL sections

Gang,

for field day, every year, there are some who don't know the proper abbreviations for the sections. here is a list (hopefully it is accurate, but some typos may have slipped in and i know i will hear about them ;-)

call area sections

```
1 CT EMA ME NH RI VT WMA
2 ENY NLI NNJ SNJ WNY
3 EPA DE MD WPA
4 AL GA KY NC NFL SC SFL TN VA PR VI
5 AR LA MS NM NTX STX WTX OK
6 EB LAX ORG SB SCV SDGO SF SJV SV PAC
7 AZ ID MT NV OR UT EWA WWA WY AK
8 MI OH WV
9 IL IN WI
0 CO IA KS MN MO NE ND SD
VE MAR QUE ONT MB SK AB BC
```

list made up from arrl section map in arrl operators handbook.
last SS i worked was before all the new sections!! so the clean sweep
list didn't help at all..... :-(

so gang, memorize it. of course, there will be some operators on the other end that want repeats because you are using the correct abbreviation and they didn't catch it and there will be unexpected abbreviations received from them. keeps us all on our toes i guess. check which section you're in before the games begin. field day chairperson will probably already know this.

of course, with everybody keeping their old calls independent of geographical location, a section doesn't always correspond with the stations call area..... i won't get on the soapbox on this one. ;-)

notes: PAC is pacific for KH6s on the islands
AK is Alaska for KL7s in the north

PR is Puerto Rico
VI is Virgin Islands

hint: wanna increase your CW speed? work FD and SS. your code speed will really go up in a hurry. get an Elmer and help them with logging and dapping to start. requires earphones for both in most cases.

after this test you'll be copying morse from the shower, the fans, and lots of background noise. ;-)

good luck in the TEST (Emergency Preparedness). watch out for the critters and Murphy. this is the largest gathering of radio amateurs to see who can destroy the most equipment..... :-) war stories to follow next week.

73 de NTX u b 599 hr om. dit dit
Dinasour Valley DX Society /5 QRP

"This is UNIX(tm)! I can do this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Jun 28 15:04:30 1993
Date: Mon, 28 Jun 93 14:03:14 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: FD Battery

good suggestions and ideas Jim, W1FMR. battery was used for some lighting and other stuff too. i had brought tensor lamp and battery which we latter used all night.

was not my ic735 so i don't know what the current drain was with speaker and all. the bird wattmeter showed 5W out into the beam on 20 and the wire beam on 40. guess lot's of overhead in the rig. also may have been the battery, as it was used for a trailer and i didn't know how old it was.

next year, a battery of batteries!!!!!!!!!!!!

72 gl n t tst es c u nxt yr :-) dit dit

1a ntx de k5mw hope Al doesn't mind me using his call for awhile.

will take a while to keep from sending it automatically.

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Jun 28 17:52:22 1993
Date: Mon, 28 Jun 1993 15:45:07 -0600 (CST)
From: Peter Hardie <hardie@herald.usask.ca>
Subject: FD Battery - IC735 current

I measured the current drain of my IC-735 at 13.8V with the key down:
at 1W out almost 4 A
at 6W out, about 7 A (I did these measurements some time ago and can't remember why I didn't measure it at 5W ... 6W is close enough).

on receive it is 1.4A.

72 de Pete hardie@herald.usask.ca VE5VA

From qrp-request@Think.COM Fri Jun 25 13:25:44 1993
Date: Fri, 25 Jun 93 13:25:35 EST
From: jennings@abb.com
Subject: Field Day

Hello QRPers,

Good luck to y'all on field day.

73

Tom Jennings KV2X
jennings@abb.com

From bruce@Think.COM Fri Jun 25 16:52:35 1993
From: Bruce Walker <bruce@Think.COM>
Date: Fri, 25 Jun 93 16:52:35 EDT
Subject: Field Day

I am being lazy this field day operating 1E, mostly because I have commitments part of the weekend, but also because I want to try out my new all-solar setup at home (and get well on my way to QRP WAS!). This will be my first QRP contest/FD effort, with a 370' longwire up in the trees. GL to all on FD.

--bruce WT1M

From qrp-request@Think.COM Mon Jun 28 11:25:43 1993
Date: Mon, 28 Jun 93 11:15:36 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: Field Day

The Splitrock ARA Field Day went well. With our 2A setup, running QRP , we worked several hundred contacts. We also had a Novice / Tech station, a packet station and a VHF/UHF station going to keep the younger crowd busy. Radios used were the Argonaut II, a Yaesu FT301S , an IC-730 and various VHF rigs. We had 222MHZ but made no contacts there on FM. Antennas were 2 tribanders, a 10m X beam, 40 and 80m dipoles and 2m + 222mhz ground planes and J-poles. Antenna supports consisted of 20-30 ft pushup masts, aluminum tower sections and military surplus 40 ft antenna masts and a 20 ft crankup. Power was provided by several deep cycle batteries and some really large military batteries. We logged all the HF contacts using CT and 2 Zenith laptops. The rest was handled with paper. I will still be typing in the data tonight. I estimate our 2A-battery score at about 7000pts. but will have an exact number later.

We had a number of thunderstorms on Sat. night and Sun. morning that kept us off the air for a significant period of time. During one of them I watched discharges from the PL-259 connector to ground. The arcs showed up nicely in the dark. I did this from the safety of my van. The ops at the Novice / Tech tent claimed they saw a purple glow coming off their connector. Some sort of corona discharge maybe?

I will post the final score later.

73,

Randy Rand AA2U
rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Wed Jun 30 08:21:00 1993
Date: Wed, 30 Jun 93 08:16:34 EDT
From: diana@Kodak.COM (Gary Diana)
Subject: Field Day

Hello All -

Since the reports are coming in about field day exploits, thought I'd share our experiences with the group.

Brad (WB8YGG/2) and myself (N2JGU) ran a field day operation as N2JGU from about 9am til 3pm on Sunday only. Equipment was as follows:

- (1) - cubic incher on 80m, to be exact 3.718 MHz (homebrew by WB8YGG; built on pc prototyping board).
- (1) - sudden receiver on 80m (also homebrew by WB8YGG, utilizing homebrew pc boards!)
- (1) - professional weekender xcvr on 40m (actually called the ugly weekender, but Brad complained that the final product looked too commercial to be called "ugly") homebrew by N2JGU
- (1) - wire dipole antenna, cut for 80m and fed with 300 ohm twinlead. With the aid of an antenna tuner, it tuned 80m and 40m quite nicely.

We ended up with 17 contacts in all. PA, NY, OH, VA, MI, NH, CT, MD, IN, VE2, and VE3. We operated with a 10AH battery, which easily lasted the entire 6 hours. This was our first attempt at fd with QRP equipment, so we were happy with the results, given the last minute arrangements to even get out and operate. We'll be there next year, hopefully sporting a couple more bands!

72 and cul.
Gary N2JGU

From qrp-request@Think.COM Wed Jun 30 15:14:37 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 30 Jun 93 12:11:50 PDT
Subject: Field Day

I operated with N7TNI and new tech as co-ops from Fort Flagler State Park, WA (on the Olympic Peninsula -- the top left corner of the map for the non-WA amongst you!) as the novice station, N7WIM on the site of K7LED, the Mike and Key club of Seattle.

As usual 10m varied from weak signal locals to sounding like 20m. For us the band was open at the start (11am to 1pm local), then it reopened on Sat night (8pm to 11pm local), then the next morning (9am to 11am local). Fooled a few people in CO with an S9 signal, and one ope in NH was suprised to hear us (I was suprised to hear them!).

We ran 3 element 10m monobander at 30 foot (I got volunteered to climb the tower -- a first for me) fed by a ic-725 running 100W. The station was located on a bluff about 100 feet above the beach. This gives a 180 view (N to S) across seawater. Gives good low angle radiation :-).

From looking at the log sheets we got about 260 QSOs (we didn't dupe check as we went along, but our memories caught a few!). Al SSB, no CW. I expect we beat last years total of 230 Qs. With a little more effort (and perhaps some more ops we could have hit 300 Qs.

I don't have logs with me (chairman has them) but I can remember working the following states:

id, ca, az, nm, tx, ok, ks, mi, ms, nh,
ma, nj, ny, fl, ga, tn, ky, oh, nb, nd,
sd, mt, wy, ut, wi, hi, la, ar, pa, md,
wv, wa, nc, sc, in, il, co

where was delaware and nevada!

all ten call districts

ve2, ve3, ve7,

best DX (only DX!) was FG5.

I enjoyed it (even though I was laid low with a bad headache for Sat afternoon).

Q R Zed November Seven Whiskey India Mike ...

Kevin Purcell N7WIM / G8UDP

a-kevinp@microsoft.com

"We conjure the spirits of the computer with our spells"

From qrp-request@Think.COM Fri Jul 2 11:36:04 1993

Date: Fri, 2 Jul 93 11:37:19 -0400

From: swart@curry.lmo.dec.com (Mark Swartwout, NX1K)

Subject: Field Day 93 Results - QRP Club of New England

Here are the totals for the QRP-NE 1993 Field Day, subject to later, more careful proofreading this weekend.

Band	CW	Phone
-----	----	-----
80	101	0
40	131	0
20	211	7

17	2	24
15	214	5
10		12
Packet	104	
2m	1	83
440		7
Total	-----	-----
	764	138

902 Total QSO's

8330	QSO points
+960	Various Bonuses

9290	Likely score

We operated class 3A, Battery from Western Mass Section. Last year we were 4A, Battery, with a score of about 7800. The QSO totals on 20, 15 and 2 meters were about 50% higher this year than last.

Our main goal was to have fun and fellowship, and we certainly succeeded. But we sure could have used additional operators. I hope more can join us next year.

HF Rigs and antennas were:

80	TS-440	160 Meter Zepp
40	HW-9*	40 Meter dipole
20	Argo 509	Corner-fed delta loop
17	17 meter hand held	Hustler mobile
15	IC-735	A3 tri-bander
10	TS-440	160 Meter Zepp

* Dave, NN1G brought his 40m version of the 20m rig that appeared in the QRP Quarterly for part of the weekend.

We had 11 participants, Frandy N1FJ, Barb NK1I, Art KY1K, Jim W1FMR (used his call), Andy KZ1L, Carl N1CUU, Greg WA1JXR, Derek (son of 'JXR), Dave NN1G, Tim KB1ARZ (Novice, son of Dave) and Mark NX1K.

For the second straight year, we set up at the Princeton, MA Light Department's windmill farm on the West side of Mt Wachusett. This site, with its 8 windmills, produces about 7% of the electrical power for the town of Princeton and is about 450 meters above sea level. The site provides a clear shot to the South and West and our experience shows we get good reflections off the mountain behind us.

It was hot and windy on Saturday, with the windmills turning until about midnight. For the rest of the weekend, the air was still with the exception of very heavy rain for about an hour early Sunday morning.

72 de Mark, NX1K
QRP-NE Field Day Chair

From qrp-request@Think.COM Mon Jun 28 14:08:30 1993
From: vikki@precipice.chi.il.us (Victoria Welch)
Subject: Field Day in extreme NE ILLinois.
Date: Mon, 28 Jun 1993 10:04:50 -0500 (CDT)

Hi Y'all,

Well, not being into drinking beer and even less into contesting, (IMNSHO the bane of the amateur radio service) I got involved this year anyway :-). We had nothing to prove since the entire station here runs off 12V and the computers off a UPS full time - necessary since we are involved in disaster services anyway - we **are** ready.

What sparked this off was "who **can** I talk to?". The results were interesting ! From 270440Z through 271132Z I managed to work 30 stations. Not impressive I am sure, but interesting and actually fun (NO, I still think there is too much of this as a normal course of events). Almost all of it being on 40 meters, all being "QRP" (formal definition: 5 Watts) and all being done in CW (a mode that I have come to like more over time, especially having the CMOS Super keyer and the Kent key!). Next year I hope to have a keyer with more capacity (could be done if you could get source code for the thing).

The antenna is a dipole cut for 4.5MHz up about 15' or so and bent (to fit :) one leg oriented E/W and the other SE/NW. Radio is a Yaesu FT-747GX. No, just because it will do it, I **do not** "turn up the wick", just because I can - a silly thing to do, IMHO only for the integrity impaired :-). All run off battery and I even un-programmed the charger not to come on that night. Class 1E IL. (The batteries are charged at night here as the electric rates start to approach rational during that time).

It **was** a zoo. The CW filter in the rig was practically useless and the external audio filter (down to 80 Hz) was not much help either in most cases there were as many as 5 stations (+?) within that passband. Occasionally there were spots that were a bit cleared (only maybe two stations in the passband). If I could have worked everyone I heard, it would have been a MUCH higher number than 30 contacts. Best coverage was to the northeast and southeast with reasonable coverage to the east and south (lots 1,2,3,4 and a few 5s and 0s, no 6s worked

(a few heard) and one difficult 7 and one VE3, one 8 (20 meters) and no 9s worked, but one heard). DX consisted of 2 Virgin Island stations which were the ONLY stations on the band when I went slumming on 20 meters about 0900Z. With the solar conditions, I wasn't too surprised at the lack of stations on 80 and 160. The times I was operating (local night time) precluded anything much above 40 Meters.

The late start I am sure didn't help either. We had *nasty* weather (so whats new in ILLinois :) that kept me on the weather nets until just before I started on 40 Meters (three local tornadoes down ("minor damage") several wall clouds that (thankfully) never formed and several from other areas "down and headed your way". After that "Field day" was a yawn <grin>. IF nothing else the storm lowered the temperature so one could breathe.

The results were interesting. I would have thought that the "best coverage" would have been North/South and NW/SE It turns out (from this experience anyway) that "best coverage" from this antenna is to the NE/SE, practically nothing N/S. Interesting. Best part was getting some experience in CW operations. My opinion about it being an abominable mode for communications still stands, but there are ways to improve the throughput (of course a "contest" is about the most limited communications I could imagine "de wv9k 1e il 5nn tu qrz", wow.). I did cheat and use the PK-232 down at the low end of the band where the big boys were zooming along at 35+ WPM (I can't write what I hear fast enough at that speed and haven't done enough of it to really hear words, sigh... More practice and getting more relaxed will probably make it easier. Since I am not a typist (I took engineering drawing in high school rather than typing (I was (am :) a real rebel in those days :-)) so that isn't too helpful, sigh...

I finally decided to go fall over about 0700 local (CDT). Slept until noon while my husband played around on 10M. He had his best luck into 5 land with that ! He also fixed and "anniversary dinner" consisting of steak and lobster, fresh corn (one of the few advantages of living here) and other yummie fare. Yes, it was a good field day <grin>.

The local QRP group did not fare quite as well out there in the storm. Lotsa lightning and some bright folks who shut it down and went away until after the airborne fireworks display ended. That much rain has to make for a decent ground :-). I have no idea at this time what the NEIQS did score wise, but I'll post it when I find out. As for my score, don't know and really don't care.

Next year I hope to have a radio with better filtering and I want to see what I can do with pactor QRP. If the bands are in better shape, I am sure that will help as well.

Earlier in the day, around the start of things, I did look around 6 Meters, 2 Meters and 70 CM (all ssb). Dead as a rock. I did hear ONE station on 2M. Since he was running a very high power station, I didn't talk to him (I do not support pollution :) and after getting the s-meter needle unwrapped from the upper peg, I shut the rig off. I had *really* hoped that VHF/UHF would have been more active. I didn't even try packet (2M FM) as the cable tv system in this town leaks so badly that the "packet area" is simply unusable (but it saves the money one would spend on cable to watch TV <grin>, if one watched tv...).

All in all an interesting experience. Not much as far as a real emergency test (with a year to plan for it ? - call another one next weekend and see who turns out :). Also from looking at the rules (briefly), it looks like a contest with even more involved rules than most of them - I'll leave that to the "blood thirsty" testers and their lawyers <grin>. The point is that it can still be fun and you can still learn something from it all. I suppose that if you can operate reasonably effectively under that sort of adverse (QRM/QRN) conditions, then we still might be able to do what the war department wants us to accomplish.

I hope that everyone else participating had as much fun with it as we did.

Take care es 72, Vikki.

--

Vikki Welch, SysAdm Welch Research, WV9K, DoD#-13, NEIQR# 13, ARCI#(NOT)
vikki@precipice.chi.il.us(daily), vikki@wv9k.atl.ga.us(weekly), arrl(NOT)

From qrp-request@Think.COM Sun Jun 27 23:34:55 1993
Date: Sun, 27 Jun 93 20:33:19 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Field Day Report, Zuni Loop

Gang, Here is the report from the Zuni Loopers. There were 18 hams there at various times, with most of them staying the full time. KI6SN, Richard Fisher; N6GA, Cam Hartford; W6SIY, Keith Clark; AA6UL, Ralph Irons; WF6D, Bill Young; KD6WKJ, Kim ????; KD6JFG, Marion McGee; WA3JPG, Clark Savage Turner; KC6TKO, Belinda Morrill; W6JHQ, Tom Brown; N7FEG, Rob Roberts; N6KR, Wayne Burdick; WA6GER, Jim Cates; N7PPF, Jim Smith; WA6ARA, Mike Herr; KD6NCW Mike Hanisee, K6MDJ, Fred Turpin, and KI6DS, Doug Hendricks.

Antenna's used were: 80 meters - 8JK Phased 2 element array up 80 ft.
40 meters - 4 Element Parasitic Delta Beam up 70 feet,
all elements spaced 16 feet.
20 meters - 6 Shooter (6 phased half waves fed between
elements) up 80 ft.
17 Meters - Lazy H up 60 ft.

15 Meters - G5RV at 70 ft.
10 Meters - Upper & outer at 50 feet.
2 meters - 4 element quad
440 - 8 element quad

Several hundred contacts were made with the 40 meter beam working great after midnite into the 4's & 5's. 20 meters was decent, with 15, 17 & 10 only fair. I had the greatest time of my life at a field day, will report our score when I get it from Cam. We operated 6A battery. Beautiful site, great weather, and I just hope the pictures that I took turn out ok. Fred, Cam, Bill, and the rest of the original group did an outstanding job of preparing. Everything was perfect. These guys really know how to do field day.

Rigs used were: Kenwood 660, Icom 735, Argo 509, 515, Wayne Burdick's Sierra 4 (hb 4band transceiver), Spider, HW-9 & Kenwood vhf and uhf rigs. We used N6GA's call in place of W6SKQ.
72, Doug KI6DS

From qrp-request@Think.COM Fri Jun 25 13:16:25 1993
Date: Fri, 25 Jun 93 10:14:51 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Field Day Reports

I am sitting here waiting on the guys to get here so we can leave for field day. Jim, WA6GER, Wayne, N6KR, and I will be going south to the Zuni Loop field day site where we are going to take advantage of Richard Fisher's kind invitation to join that group for field day. Sunday evening I will file a report to the group on our activities. It should be exciting. Fred Turpin, Cam Hartford, Clark Turner, Richard Fisher and others will be there. This is going to be the best field day ever for me. Hopefully you will file a report to us on your fd activities. It will be interesting reading and fun to read about the "adventures" of my fellow qrp addicts. Send in a report Sunday or Monday, and it should be fun reading. Say hello if you work us.
72, Doug, KI6DS

From qrp-request@Think.COM Fri Jun 25 13:58:13 1993
Date: Fri, 25 Jun 93 12:58:04 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Re: Field Day Reports

GL to the Zuni Loop FD group and all the others this weekend. should be fun.

weather gang here says thunderstorms and rain for the weekend, but heck, what else is new? i could have told them that two months ago. in fact, for the next N years where N is large. ;-)

keep the rig dry and watch for the skeeters, ants, and other critters.
hate it when that happens.

72 es g1

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of
SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Tue Jun 29 09:02:18 1993
Date: Tue, 29 Jun 93 9:00:30 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: Final Score-FD K2RF

Just finished typing in the last of the logs into the computer last
night. We made a total of 792 QSO's with 260 being on SSB or FM and the
remainder on CW. Our final score including bonus pts is 7320. This would
have placed us 4th in our 2A-battery category in last years FD.

Going through the logs I noticed that our Technicians worked W1FMR
on 2m FM. We were running 5w to a 2m groundplane up 40 ft. Wonder what
Jim's bunch were running? Our QTH was a superb VHF location though being
on top of a 900ft ASL + hill with nothing higher to the east, north east
and south of us.

73,
Randy Rand AA2U
rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Thu Jul 29 16:06:32 1993
Date: Thu, 29 Jul 93 19:55:49 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: First Sunday Coming Up

Yes, Sunday is the first Sunday of August, so it's
time for the First Sunday QRP QSO Party. Here's the
schedule Chuck (K5FO) posted last time:

FIRST SUNDAY SCHEDULE

UTC	CW	SSB	NOVICE
14-16	14.060	14.285	
16-17	21.060	21.385	21.110
17-18	28.060	28.885	28.110
18-19	7.040	7.285	7.110

19-20	14.060	14.285	
20-21	21.060	21.385	21.110
21-22	28.060	28.885	28.110
22-23	7.040	7.285	7.110
23-24	14.060	14.285	
00-01	7.040	7.285	7.110
01-03	3.560	3.985	3.710 and colorburst freq fer W1FMR et.al.

the WARC bands 30M 10.106 at all times might be possible. the above
freqs and times back in 1986.

1.810
10.106/20
24.900(cw) 24.985(ssb)
50.360(cw) 50.385(ssb)

From qrp-request@Think.COM Wed Jun 30 17:16:06 1993
Date: Wed, 30 Jun 93 16:15:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: First Sunday QSO Party

it's that time again boys and girls. first sunday of the month
informal qrp party time.

FIRST SUNDAY SCHEDULE

UTC	CW	SSB	NOVICE
14-16	14.060	14.285	
16-17	21.060	21.385	21.110
17-18	28.060	28.885	28.110
18-19	7.040	7.285	7.110
19-20	14.060	14.285	
20-21	21.060	21.385	21.110
21-22	28.060	28.885	28.110
22-23	7.040	7.285	7.110
23-24	14.060	14.285	
00-01	7.040	7.285	7.110
01-03	3.560	3.985	3.710 and colorburst freq fer W1FMR et.al.

the WARC bands 30M 10.106 at all times might be possible. the above
freqs and times back in 1986.

1.810
10.106/20
24.900(cw) 24.985(ssb)

50.360(cw) 50.385(ssb)

hope this catches on.

have a good weekend and hope i got this posted before everybody
took off for the holidays.

72 es bcnu agn de k5fo/qrp dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of
SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Wed Aug 25 09:18:37 1993
Date: Wed, 25 Aug 93 08:18:28 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Flags

ok, they made it hard. Icom, that is, on the flags.

seems like i spent \$14.95 + tax for a raffle ticket. :-)

problem is that i still have only 9 outta 10. i know now that i've
been working too hard and not paying attention to what's going on
around me. world geography has changed a lot in the last few years
and even more over the last 25 years or so.....

flag #2, red and green with yellow star, second from the left.
flag #3 is printed reversed.

my source, "Guide to the Flags of the World" by Mauro Talocci.
Quill Publishing. \$14.95 paperback.

of course, outta 315+ countries you didn't expect me to know them
all?

good luck in your quest for the elusive IC-707.

72 de k5fo dit dit

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Jun 21 12:59:06 1993
Date: Mon, 21 Jun 1993 12:58:45 +0500
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: FT243 with knobs

Clark,

I remember seeing some of these where the knob on the outside varied the pressure to the plates that surround the crystal on the inside. It gave you a bit of VX0 control. I forget if more pressure was higher or lower frequency. I don't recall any modifications with caps, but I imagine that would be possible, although it would make more sense to put the cap and coil in the transmitter so it would work with all crystals.

I remember the days of etching or grinding the crystals (comet and a piece of glass) to raise the frequency and then "leading" them with a #2 pencil to bring them back down. Chasing dx with a pencil and a screwdriver to move the crystal - those were the days. :-)

I Think I may have just dated myself....

kevin, WB2EMS

From qrp-request@Think.COM Mon Jun 21 14:18:48 1993
Subject: Re: FT243 with knobs
Date: Mon, 21 Jun 1993 11:05:01 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Hello Kevin:

You mention the days when chasing DX with a pencil and screwdriver to adjust your freq. (crystals). I remember that myself. I used iodine on the crystal instead of pencil lead, but used the screwdriver to scrape the crystal also.

Funny stuff. Anyway, it seems the consensus is that the knob varies pressure on the crystal slab inside the FT 243. Funny little beast. It chirps inside my T-60 (that dates ME! My first transmitter.....) whereas my standard crystals do not. Think I will dismantle it for a look-see.

Clark

From qrp-request@Think.COM Mon Aug 9 11:47:46 1993
Date: Mon, 9 Aug 93 10:47:36 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: FT8WA

worked, last nite aug 9, 1993 0300UCT, FT8WA on 40 meters
7.008MHz with 2 watts out OHR Spirit.

in callbook shows French Anarctica, but ARRL DXCC country
list shows Crozet Island, AF, ITU 53, CQ Zone 39. is this
critter rare Randy, AA2U. not much of a crowd when i worked
him.

dit dit
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 9 13:55:45 1993
Date: Mon, 09 Aug 93 17:43:26 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: FT8WA

Well, old Chuck worked Crozet Island alright!
Good going, Chuck.

KR1S

From: Bruce Walker <bruce@Think.COM>
Date: Mon, 23 Aug 93 09:34:31 EDT
Subject: ftp-able artwork

From qrp-request@Think.COM Mon Aug 23 09:23:26 1993
Date: Mon, 23 Aug 1993 09:19:07 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: ftp-able artwork

Well folks, here it is, I guess I finally got The leagues endorsement to establish an ftp site for mirror imaged artwork for the purpose of creating circuit boards. Two questions arise:

1. Previously Bruce had offered his system as a site. Is this still available?
2. Any preferences on the file format? I originally thought postscript, but it may be a lot easier for .pcx format for many people?

Because most of my projects are qrp related, I think that some of you may get a kick out of being able to ftp an artwork, then print it out with a laser printer and iron on a pc board. (reference July 1993 QST for this process.) I have had a lot of luck scanning artworks from QST, 73 and the handbook. 73 all Brad Mitchell WB8YGG

Response from Mark Wilson at the ARRL:

>From mwilson@arrl.org Fri Aug 20 14:03:42 1993

Date: Fri, 20 Aug 93 13:46:00 EDT

>From: mwilson@arrl.org (Mark Wilson)

To: bmitchel@cba.kodak.com

Cc: ppagel@arrl.org, jlbloom@arrl.org

Subject: Re: ftpable artwork

Content-Length: 2144

>Hello all, Myself (WB8YGG) and Gary N2JGU have been wanting to establish
>an ftp site that we could use to down load mirror images of artwork that
>is used for the various projects in QST and maybe other magazines as well.
>

>Maybe the files could be stored in post script format, so that anybody that
>could ftp (download) the file could print them on their laser printer.
>

>I personally have scanned some of the printed artwork from QST to generate
>mirror imaged artworks to iron on to p.c. boards, but I'm not sure of the
>legalities of all this. Can anybody at the league tell me???

It's fine for you to scan the artwork for personal use. In some cases, the authors permit personal use but prohibit commercial use of the artwork. Any restrictions are noted on the template package and artwork we provide.

>Anyway, can I get some response (maybe, no, yes etc) to this because it's
>apparent that there is an interest especially now that you published the

>article regarding the pc board iron on process. Maybe the ARRL might consider
>establishing an ftp site for these artworks etc?? 73 fer now... Brad Mitchell
>WB8YGG (bmitchel@kodak.com)

We started distributing normal and reverse-image versions of PC board templates last week. Lots of demand since the article came out. We have also made available postscript files for artwork for some microwave projects that were developed here, with good response.

In many cases, though, authors design PC boards manually or with software that does not support postscript, so all we have is a paper or film copy. I'd be interested in seeing the quality of artwork you have scanned in. (We have all manner of postscript output devices here...)

I have no problem if you want to establish an ftp site. It's something we might consider doing at ARRL in the future, but right now I don't have the resources to put into starting one up. If you want to do it, though, that would be great! I'd be glad to provide whatever electronic files I can, and paper copies of everything else that's in the public domain.

Let me know what you think.

73, Mark Wilson, AA2Z
mwilson@arrl.org

From bruce@Think.COM Mon Aug 23 09:34:32 1993
From: Bruce Walker <bruce@Think.COM>
Date: Mon, 23 Aug 93 09:34:31 EDT
Subject: ftp-able artwork

Date: Mon, 23 Aug 1993 09:19:07 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Well folks, here it is, I guess I finally got The leagues endorsement to establish an ftp site for mirror imaged artwork for the purpose of creating circuit boards. Two questions arise:

1. Previously Bruce had offered his system as a site. Is this still available?

Yes, certainly.

2. Any preferences on the file format? I originally thought postscript, but it may be a lot easier for .pcx format for many people?

I would be interested in hearing what others would like to see. I can deal

with lots of image types here. Tell Brad your favorite format via mail.

--bruce WT1M

From qrp-request@Think.COM Mon Aug 23 13:29:03 1993
Date: 23 Aug 1993 09:20:15 U
From: "QM Administrator" <QM_Administrator@cpqm.saic.com>
Subject: ftp-able artwork

Mail*Link(r) SMTP ftp-able artwork
Well folks, here it is, I guess I finally got The leagues endorsement to establish an ftp site for mirror imaged artwork for the purpose of creating circuit boards. Two questions arise:

1. Previously Bruce had offered his system as a site. Is this still available?
2. Any preferences on the file format? I originally thought postscript, but it may be a lot easier for .pcx format for many people?

Because most of my projects are qrp related, I think that some of you may get a kick out of being able to ftp an artwork, then print it out with a laser printer and iron on a pc board. (reference July 1993 QST for this process.) I have had a lot of luck scanning artworks from QST, 73 and the handbook. 73 all Brad Mitchell WB8YGG

Response from Mark Wilson at the ARRL:
>From mwilson@arrl.org Fri Aug 20 14:03:42 1993
Date: Fri, 20 Aug 93 13:46:00 EDT
>From: mwilson@arrl.org (Mark Wilson)
To: bmitchel@cba.kodak.com
Cc: ppagel@arrl.org, jbloom@arrl.org
Subject: Re: ftpable artwork
Content-Length: 2144

>Hello all, Myself (WB8YGG) and Gary N2JGU have been wanting to establish
>an ftp site that we could use to down load mirror images of artwork that
>is used for the various projects in QST and maybe other magazines as well.
>
>Maybe the files could be stored in post script format, so that anybody that
>could ftp (download) the file could print them on their laser printer.
>
>I personally have scanned some of the printed artwork from QST to generate
>mirror imaged artworks to iron on to p.c. boards, but I'm not sure of the
>legalities of all this. Can anybody at the league tell me???

It's fine for you to scan the artwork for personal use. In some cases, the authors permit personal use but prohibit commercial use of the artwork. Any restrictions are noted on the template package and artwork we provide.

>Anyway, can I get some response (maybe, no, yes etc) to this because it's
>apparent that there is an interest especially now that you published the
>article regarding the pc board iron on process. Maybe the ARRL might consider
>establishing an ftp site for these artworks etc?? 73 fer now... Brad Mitchell
>WB8YGG (bmitchel@kodak.com)

We started distributing normal and reverse-image versions of PC board templates last week. Lots of demand since the article came out. We have also made available postscript files for artwork for some microwave projects that were developed here, with good response.

In many cases, though, authors design PC boards manually or with software that does not support postscript, so all we have is a paper or film copy. I'd be interested in seeing the quality of artwork you have scanned in. (We have all manner of postscript output devices here...)

I have no problem if you want to establish an ftp site. It's something we might consider doing at ARRL in the future, but right now I don't have the resources to put into starting one up. If you want to do it, though, that would be great! I'd be glad to provide whatever electronic files I can, and paper copies of everything else that's in the public domain.

Let me know what you think.

73, Mark Wilson, AA2Z
mwilson@arrl.org

----- RFC822 Header Follows -----
Received: by cpqm.saic.com with SMTP;23 Aug 1993 07:03:12 U
Received: by mail.think.com; Mon, 23 Aug 93 09:23:29 -0400
Return-Path: <bmitchel@CBA.Kodak.COM>
Received: from Think.COM by mail.think.com; Mon, 23 Aug 93 09:23:26 -0400
Received: from Kodak.COM by Early-Bird.Think.COM; Mon, 23 Aug 93 09:22:28 EDT
Received: from [129.126.22.3] by Kodak.COM (5.61+/2.1-Eastman Kodak)
id AA22706; Mon, 23 Aug 93 09:21:25 -0400
Reply-To: bmitchel@CBA.Kodak.COM
Received: from santa.CBA.Kodak.COM.CBATEST ([129.126.243.4]) by
hobby1.cba.kodak.com
with SMTP id AA05518

(5.65c/IDA-1.4.4); Mon, 23 Aug 1993 09:19:07 -0400
Date: Mon, 23 Aug 1993 09:19:07 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Message-Id: <199308231319.AA05518@hobby1.cba.kodak.com>
To: qrp@Think.COM
Subject: ftp-able artwork
Cc: mwilson@arrl.org, kp26.594646@kodako.kodak.com, vx345::brighten@Think.COM

From qrp-request@Think.COM Mon Aug 23 15:59:27 1993
Date: Mon, 23 Aug 1993 15:58:22 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: ftp-able artwork

Well I have some good news and some bad news.

I ftp-ed a neophyte file to think.com
in the directory /pub/radio/ham/qrp/artwork.

The problem is that I can't seem to get the thing into Postscript format!!!

I sent it there in .TIF (TARGET IMAGE FROMAT)

The Image is mirrored not negative. It consists of 8 mirror image artworks
of the Neophyte Receiver.

Mirrored is the requirement for ironing on.

I'll try to get Post script format, but no guarantees at this point how
successful I will be. Let me know if anybody trys the .tif format.

P.S. Can anybody convert it to Post script? Also, Designer software on the
P.C. handles .tif files nicely. 73/72 all Brad WB8YGG

From parish@Think.COM Mon Aug 23 16:10:53 1993
From: Edward Parish <parish@Think.COM>
Date: Mon, 23 Aug 93 16:10:53 EDT
Subject: ftp-able artwork

Date: Mon, 23 Aug 1993 15:58:22 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Well I have some good news and some bad news.

I ftp-ed a neophyte file to think.com
in the directory /pub/radio/ham/qrp/artwork.

The problem is that I can't seem to get the thing into Postscript
format!!!

I translated it to .ps. Try it now.

From qrp-request@Think.COM Mon Aug 23 19:09:07 1993
Date: 23 Aug 1993 12:43:56 U
From: "QM Administrator" <QM_Administrator@cpqm.saic.com>
Subject: ftp-able artwork

Mail*Link(r) SMTP ftp-able artwork
Date: Mon, 23 Aug 1993 09:19:07 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Well folks, here it is, I guess I finally got The leagues endorsement to
establish an ftp site for mirror imaged artwork for the purpose of creating
circuit boards. Two questions arise:

1. Previously Bruce had offered his system as a site. Is this still
available?

Yes, certainly.

2. Any preferences on the file format? I originally thought postscript, but
it may be a lot easier for .pcx format for many people?

I would be interested in hearing what others would like to see. I can deal
with lots of image types here. Tell Brad your favorite format via mail.

--bruce WT1M

----- RFC822 Header Follows -----

Received: by cpqm.saic.com with SMTP;23 Aug 1993 07:16:51 U
Received: by mail.think.com; Mon, 23 Aug 93 09:34:36 -0400
Return-Path: <bruce@Think.COM>
Received: from Dolius.Think.COM by mail.think.com; Mon, 23 Aug 93 09:34:32
-0400
From qrp-request@Think.COM Tue Aug 24 07:47:05 1993

Date: Tue, 24 Aug 1993 07:46:50 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: ftp-able artwork

Well, folks stay tuned we may have this all figured out yet.

The current file neophyte.ps in the directory /pub/radio/ham/qrp/artwork
,on think.com, I was not able to print.

I will say that if and when this process gets ironed out for creating
the .ps file that the neophyte artwork is the worst that I have tried to scan
so far. It wasn't too good a print in the article, but I have made 5 neophyte
boards for myself. No not to sell, Gary N2JGU and I gave a demo on the iron
on process at our local Brockport Amateur Radio Klub (Bark) meeting, and it
generated several of these things. Even though the original image wasn't the
best the boards turned out pretty good.

73/72 all Brad WB8YGG

From qrp-request@Think.COM Mon Jun 21 11:22:46 1993
Date: Mon, 21 Jun 93 11:18:52 EDT
From: diana@Kodak.COM (Gary Diana)
Subject: ftp-able pc artwork

Hello fellow QRPers -

With the recent discussion of FAR circuit boards for
the NE-QRP Colorburst rigs, I was wondering if there would
be interest in starting a collection of ftp-able pc artwork.
This would allow the homebrew pc builder to satisfy
his/her habit!

We would have to decide on a format that would be
easily used with the major image manipulation programs
(i.e. adobe photoshop, etc). Maybe a first step would
be to see how many people would really be interested in
this service. And then there's the issue of where to
store them...

Comments? Ideas?

Gary N2JGU
gmdiana@kodak.com OR diana@sneaks.kodak.com

From qrp-request@Think.COM Wed Jun 23 19:41:41 1993
Subject: fun with spider
Date: Wed, 23 Jun 1993 16:36:48 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Hello All:

On a lark, I ordered the little Spider (from Jan 73) and got it in less than a week. Pretty good compared to Campbell, who is making a lot of us wait for our R2 T2 boards.

Anyway, I had a spare hour around my research time so I wound the toroids and stuck the iron on....put it together in no time. Contrary to my other experiences, all the parts were there and the radio worked fine first try.

My wife laughed at it, all alligator clipped to my antenna and key (and crystal clipped on, too), and asked if it would really work. I heard some guy signing off from a QSO, so....I called him. He came back with 579 report and we went on for about an hour at midnight on 7038. Put a little thrill back into my life, there. Simple and fun.

Anyway, I have one problem that someone may understand. I bought the 10K audio taper pot for the RIT and it just isn't right. When I put my hands on the RIT wires I get just the right amount of resistance to move a Khz or so, so it seems that the circuit wants to see about 200K to 500K ohms or something, NOT 10K (it just goes off frequency and stays there). I suspect I can get a 100K audio taper pot and put a 100K resistor in line and fiddle with that, but, anyone with a Spider see this happen? I have checked the parts carefully and didn't mix up any resistors, although some of the transistors are substitutes (but used per the manual.) No big deal, though. Just wondering.

So, I heartily recommend the little thing for anyone wanting to spend \$30 or so on a single board transceiver for a little fun. Now I plan to put it into a little box with battery pack and antenna tuner built in. My wife promises to get her General in the next two months - and I will try to keep in touch with her via CW when I go on my long camping expedition in the Rockies. Simple, silly....but big thrill to me still. This radio stuff is just magic.

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
Irvine, CA. 92717 Irvine, CA. 92715
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Thu Jun 24 07:33:19 1993
Date: Thu, 24 Jun 93 07:33:04 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: fun with spider

In regards to Clarks comments on the Spider,

Subject: fun with spider
Date: Wed, 23 Jun 1993 16:36:48 -0700
>From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

I thought that the smart sidetone was pretty neat when I read the article.

How do you like that clark?, and what band did you put the spider on?

73 fer now... Brad WB8YGG

From qrp-request@Think.COM Thu Jun 24 16:03:53 1993
Subject: Re: fun with spider
Date: Thu, 24 Jun 1993 12:59:11 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Well, Brad, I put my Spider on 40 (for now, easy to change) and I have xtals for 7040 (reads out at 7038) and 7110. The Smart Tone works just fine...if the xtal is pulled or the antenna gets loose (or goes haywire) the tone changes a lot. I suspect it will take some getting used to, and that I may be able to diagnose other things with it as time goes on.

I have been on the air with it 4 times now, my best DX is MI last night with 579. QSO for about an hour with W9IS - who went to High School with Herb Johnson (of Atlas Radio) so we discussed Herb's new Atlas 310 and what a funny guy he is. I also know him personally, so it was real

fun. Also met N6KR, Wayne, who is sometimes here on the Internet with us, there around 7038. Was a real pleasure to meet up with him.

Altogether, I haven't had this much fun since my WN3JPG Novice days. I suspect it is that more skill goes back into the operation, since the radio is so basic and simple. The only modern day piece I use right now is the Autek QF-1A on the output. I used it a couple of times to narrow the bandpass, and it is a real help, though it is no problem to copy without the filter - but the concentration (exhaustion) factor goes up a lot.

So my 440S sits unused ... along with my other stuff, while I have a real ball with this little naked board sitting on my table clipped to power and antenna.

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
Irvine, CA. 92717 Irvine, CA. 92715
(714) 856 4049 (714) 856 2131

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ARRL Volunteer Counsel

From qrp-request@Think.COM Thu Jul 8 19:27:42 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 8 Jul 93 15:27:05 PST
Subject: FW: Cheap Lead-Acid batteries

FYI

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From: Steve Sergeant <netmail!SteveSgt@torrent.sj.ca.us>
To: <bikecurrent@scuba.Eng.Sun.COM>
Cc: <raster@isi.com>
Subject: Re: Cheap Lead-Acid batteries
Date: Thursday, July 08, 1993 6:37AM

In Regards to your letter <9307070049.AA12950@comanche>:

> For all you home-brewers.

>

> I stopped by "Surplus Stuff" in Milpitas on Saturday and they have a
> sh*t-load of 2.5AH lead-acid batteries for sale for \$4. These
> batteries consist of 4 2V cells loosely hooked together but can be
> re-packaged to 6V configurations quite easily.

These are "Gates Cyclone" lead acid cells. When they're new, they're the best deep-cycle small lead acid batteries around. They retail for about \$6.50 each when they're new.

These batteries are used in the new "high-power" Vista-Lite VL420 and VL430. And they are an excellent choice for bike lighting, especially if you are building a system that will be gather charge-on-the-run with a generator or solar cell for recharging.

But here's the caveat: The batteries have a limited shelf life, and they seem to last about the same amount of time whether you use them or not. I'm trying to get documentation on how to read the date code on them, but if they're over about 2 years old, don't waste your money.

- - - - -
Steve Sergeant Internet: SteveSgt@torrent.sj.ca.us
San Jose, California Radio: KC6ZKT @N0ARY.#NOCAL.CA.USA.NA
(408) 945-0395 GEnie: STEVSERGEANT
Audio Engineering, Music, Macintosh, Bicycles, Backcountry, Japan

From qrp-request@Think.COM Wed Jul 7 15:33:32 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 7 Jul 93 12:32:47 +0800
Subject: FW: Fwd: Cheap Lead-Acid batteries

If anyone i in the region and wouldn't mind buying a few extra for me I would be interrested.

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

Date: Tue, 6 Jul 93 17:49:26 PDT
From: raster@isi.com (Radek Aster x211)
Message-Id: <9307070049.AA12950@comanche>
To: bikecurrent@zule.Eng.Sun.COM
Subject: Cheap Lead-Acid batteries

content-length: 376

Howdy,

For all you home-brewers.

I stopped by "Surplus Stuff" in Milpitas on Saturday and they have a sh*t-load of 2.5AH lead-acid batteries for sale for \$4. These batteries consist of 4 2V cells loosely hooked together but can be re-packaged to 6V configurations quite easily.

Surplus Stuff is located on the corner of Milpitas Blvd. and Yosemite Dr. in Milpitas.

Radek

Bob Gahl KD6KMX Bicycle Mobile|ARPA/INTERNET: bgahl@scuba.Eng.Sun.COM
SunSoft DPT Software Engineer |UUCP: ...[about anywhere]!sun!bgahl
"If you're trying to be politically correct you're like a chameleon
in front of a mirror. What can you say that won't be offensive to
somebody?" Robin Williams

From qrp-request@Think.COM Sun Jul 11 12:48:36 1993
From: majec@cactus.org (Majec Systems)
Subject: gel cells again
Date: Sun, 11 Jul 93 11:48:00 CDT

Charging gel cells:

Well here it is again since I got no response the last time.

I have several 4ah gel cells that I want to charge to run my QRP rig on. I have a 14.3 dc power supply and a 200 ma meter. What is the best way to charge up these batterys useing a dropping resistor and the elements that I have mentioned.

"any one...any one"

Ed Guinn
KB5RUF

From bruce@Think.COM Mon Jul 12 10:18:09 1993
From: Bruce Walker <bruce@Think.COM>
Date: Mon, 12 Jul 93 10:18:09 EDT

Subject: gel cells again

From: majec@cactus.org (Majec Systems)

Date: Sun, 11 Jul 93 11:48:00 CDT

Charging gel cells:

Well here it is again since I got no response the last time.

I have several 4ah gel cells that I want to charge to run my QRP rig on. I have a 14.3 dc power supply and a 200 ma meter. What is the best way to charge up these batterys useing a dropping resistor and the elements that I have mentioned.

I've read that gel cells like to be charged with constant-voltage, usually with a current limiter if they are going to be very discharged. I have some information about it at home, which I'll try to remember to type in tonight.

--bruce WT1M

From qrp-request@Think.COM Mon Aug 9 10:58:30 1993

Date: Mon, 09 Aug 93 14:44:27 GMT

From: jkearman@arrl.org (Jim Kearman)

Subject: Good luck, HW-8 Hunters...

>From: rdewan@casbah.acns.nwu.edu (Rajiv Dewan)

>Newsgroups: rec.radio.swap

>Subject: FOR SALE: Heathkit HW8 CW Transceiver.

>Date: 8 Aug 93 21:16:02 GMT

>Organization: Northwestern University, Evanston IL

>Lines: 15

>

>

> FOR SALE

>

>Heathkit HW8 CW transceiver with Lambda 12V supply

>80, 40, 20 and 15m.

>1W out.

>Really nice sound.

>Works but not perfect cosmetically.

>

>Price: \$100 and shipping.

>

>Rajiv Dewan

>r-dewan@nwu.edu

>(708) 491 2672 days

>(708) 205 1914 eves

>

>

From qrp-request@Think.COM Mon Jun 28 11:15:44 1993

Date: Mon, 28 Jun 1993 10:15:02 -0500 (CDT)

From: "Jeff M. Gold" <JMG@tntech.edu>

Subject: Great wire antenna

Hi,

A good while back I pulled some info about the ZS6BKV antenna from somewhere. I built one for Field Day.

This is a 5 band tunerless antenna which was developed using computer modeling. It has a good SWR on 40, 20, 17, 12, and part of 10 meters. Mine also was resonant at the lower end of 80 and worked fine on 15 meters.

It is 92 feet 2 inches of wire (split in half as a dipole) with 40 ft of 450 ohm ladder-line as a matching section. This is then directly connected to some 50 ohm coax.. I used RG58/U. I then took about 5 extra feet of coax and tightly looped it around the end of the coax section nearest the 259 connector to keep out RF.

The club used a 440 with an autotuner and a bunch of QRP kits I had built. The antenna was up at about 25 feet to start, then I restrung it to about 40 feet.

The 440 easily tuned the antenna on all except 160 meters (no big surprise here). The antenna worked GREAT. After I restrung it at the 40 foot height.. seemed to be able to work everyone first try with the 100 watts and had real good success with the QRP rigs.

The antenna seemed to outperform the G5RVs that were strung around at the other tents.. and has the advantage of working a number of bands without a tuner

73

Jeff,AC4HF

From qrp-request@Think.COM Tue Jul 20 01:53:57 1993

Date: Mon, 19 Jul 93 22:52:07 PDT

From: dh@deneb.csustan.edu (Doug Hendricks)

Subject: Hamstick Mobile Antennas

I read Chuck's account of going mobile CW, and Jeff's antenna review, so I just had to tell you about my Great Antenna Adventure. August 2nd I will be mobile on 20 and 40 cw as I make the trip to Kansas to visit my father. I am traveling alone, so if you hear me calling cq, answer.

Ok, guys, here comes my adventure with an antenna. About a month ago I was inspired to take my rig with me when I make my trek across the US to visit my father in Kansas. So, I needed a mobile antenna. I purchased the hamstick model from Lakeview Co., Inc. 3620-9A Whitehall Rd., Anderson, SC., 803-226-6990. I bought the 20 and 40 meter resonators and the triangle mag mount. Came to about \$75.

About a week or 10 days went by and one day the Big Brown Goodie Truck stopped by and delivered my antennas. Wow was I excited. I immediately opened up the 40 meter resonator, read the instructions, albeit not too well as you shall see. I quote:

"Note: The Exposed whip lengths shown are approximate. Actual lengths will depend on several factors including mounting position, coax length, other antennas in the area and matching method. Again do not allow the whip to enter the close wound loading coil area of H.F. antennas."

This was the paragraph that led me astray. Ah hah, they don't want any whip in the coil part, ok....so I looked at the suggested length chart for the 40 meter band....let's see if I want it resonant at 7.000, it needs to be about 40" long. Hmmn, usually they are off a little....the total length is 47" so I will cut 5" off. That was going to give me 2" extra. So, I went to the shop, got out the hack saw and cut off 5" of the whip. BIG BIG MISTAKE. Notice that I did not hook it up to the rig and check the SWR, nooooo, not KI6DS, he is too "smart" for that! After I cut off the whip, I put it in the resonator, tightened the screws and mounted the antenna. Tuned the rig to 7.005 and checked the SWR. OH MY GOD!!! It was about 5 to 1. Whoops, started up the band, tuned farther and farther, the top edge of the CW portion coming up, let's see, darn, SWR still out of sight. I'm beginning to realize at this point that I have done something terribly wrong. I am hoping that the antenna will at least be resonant in the SSB portion, no way, as I approach 7.3 I find out that the antenna has an SWR of 3.5 to 1, entirely unacceptable. When I finally found the resonant frequency, it was at 7.445, not really a great spot for mobile cw work.

I called the company. Butch was really nice, told me that yes I had screwed up by cutting the whip, but not to feel too badly, I wasn't the first to do so.....that made me feel really great. I asked and was told that another whip would be \$6...so I ordered one.

Now those of you who are astute will be saying "why didn't he use the other whip from the 20 meter antenna?" Not to be, my friends, as you see Dougie, the antenna wizard of the west, had also trimmed the 20 meter whip at the same time as he was trimming the 40 meter. It was even worse, as I cut 7" off the 20 meter whip. Why did I do that? Dumb I guess, I don't know. (You aren't the first to ask, my wife beat you to it!) Shoot, I had the hacksaw in hand, one whip was cut, might as well get the other one done

while I was at it.....

What was the fix? Ok, here is the solution that I found. I got a piece of 1/4" round stainless steel rod, cut it 2 inches long, put it in my milling machine and faced off both ends square. I then drilled an 1/8" hole in each end about 3/4" deep. Then I drilled and tapped a hole for a 4-40 screw about 1/4" from each end to hold a set screw. Put the end of the whip in one end, the cut off end in the other, and instant connector. Works like a charm. Doesn't look too good, but I tell all of my friends that it is a "special thig-a-ma-jig that goes on this antenna". They look at it, shake their heads and mumble about "antenna's are weird" as they look at the SWR meter that is reading 1.1 to 1.

How does the antenna work? First contact was with a Salt Lake City station. He gave me a 579, I was using 2 watts. He was a 599, but he was running 100 Watts to a dipole up 60 feet. Second contact was on 20 meters. Yes, I had to make "two of those special connectors", but at least I have a matched pair! Har Har. The second contact was SSB, using 2 watts. Talked to a guy on a sail boat about a 100 miles off the coast of Mexico. He was flabbergasted when I told him I was running 2 watts in to a mobile antenna.

Hamsticks are good antennas. They are cheap, about \$18 per band, the mag mount that I bought cost \$35, but it holds the antenna with no problem going 75 mph down the freeway. I recommend them. They get out, they are easy to tune (but for heaven's sake don't trim the antenna whip until you check the SWR first). If you have questions or brick bats, send them to me hear on Internet. 72, Doug

From qrp-request@Think.COM Thu Jul 22 14:18:17 1993
Date: Thu, 22 Jul 93 13:15:26 CDT
From: mstrong@raiders.micro.ti.com (Mike Strong)
Subject: Heath HM-102 Wattmeter

I have a Heathkit HM-102 Wattmeter that I am trying to convert to use with QRP transmitters. If you are not familiar with this meter, it is a 200W/2000W wattmeter and SWR Bridge. The sensor circuit consists of a large (12ga) wire connecting the input and output SO-239s. This wire passes through a toroid coil with 17 windings on it that forms a transformer, providing a RF signal to the circuitry. Clear as mud? Anyway, in my infinite wisdom, I figgered that a way to improve the power sensitivity of this meter would be to add more turns to the toroid. I removed the coil, and thought (key word: thought) that I understood how the coil was wound. I thought that the coil was just a center-tapped winding on the toroid, providing balanced power input to both sides (forward / reverse) of the SWR circuit. I removed the old windings from the toroid, and rewound the coil with more turns. The wattmeter now works fine, with relatively accurate readings at the 1 watt level. However, the SWR bridge is now worthless. I get full scale deflection on forward and reverse. I suspect that I have wound the coil wrong. Does anyone have one of these venerable old meters who would like to check out the coil and tell me for sure how it is wound? Or, do you have any other ideas? I have checked the obvious things: the dummy load is OK on another SWR bridge, the switch, etc are wired

OK...

I would appreciate any help. I am feeling kind of stupid right now. But, nothing ventured, nothing gained. I feel like I am just this || close to having a really nice QRP Wattmeter/SWR Bridge.

72 de Mike Strong KT5H

mstrong@micro.ti.com

TI - Houston (713) 274-3317

From qrp-request@Think.COM Thu Aug 12 16:25:58 1993
Date: Thu, 12 Aug 1993 15:26:03 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: Help!!!!!! (please)

Well, here is the story. I am going to work on an article for December QST on Mobile HF (not just QRP..sorry). I have come to conclusion that all information that is available on about any ham question is in someone's brain that is on this list. I would value greatly any suggestions, comments and experiences on this subject and:

- 1) wiring up a mobile rig(installation..brackets electrical system concerns, particular brand car problems.. like with car computers)
- 2) mobile inteference problems
- 3) good hf mobile rigs and why
- 4) mobile antennas.. specs.. what is best and why.. personal and quantitative info (not quoted from sales material)
- 5) rewards and pitfalls of mobile
- 6) operating tips
- 7) other stuff people are interested in reading.

I have a bunch of info and operate mobile/CW/QRP and mobile/SSB/QRP.. but would rather have a broader input on this subject.

The purpose of the article will to hopefully get people excited about this part of ham radio, tell them enough information about what is involved and give them insites and personal experiences.. not going to be a real technical article.

thanks

72 (73 in this case, I guess)

Jeff, AC4HF

From qrp-request@Think.COM Wed Jul 14 10:35:52 1993
Date: Wed, 14 Jul 93 08:55:23 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM2.CC.VT.EDU>
Subject: homebrew list?

It's my understanding that there is now a homebrew list. I only have mail access. Does it support this and if so how do I subscribe?
Thank's

```
*****  
* Rodney Clayton KA3BHY          Howard County Public Schools *  
*                               Ellicott City, MD  USA      *  
* Systems Programmer             ABRC@CATCC.BITNET          *  
*****
```

From bruce@Think.COM Wed Jul 14 13:57:14 1993
From: Bruce Walker <bruce@Think.COM>
Date: Wed, 14 Jul 93 13:57:13 EDT
Subject: homebrew list?

Date: Wed, 14 Jul 93 08:55:23 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM2.CC.VT.EDU>

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Thank's

```
*****  
* Rodney Clayton KA3BHY          Howard County Public Schools *  
*                               Ellicott City, MD  USA      *  
* Systems Programmer             ABRC@CATCC.BITNET          *  
*****
```

There is a new Usenet newsgroup on homebrewing. No one has set up a gatewaying mailing list, as far as I know, so receiving the articles by mail would take a special setup from someone who receives the newsgroup. I do not have the time to administer such a thing, at least for the near future.

--bruce WT1M

From qrp-request@Think.COM Wed Jun 23 14:16:28 1993
Date: Wed, 23 Jun 93 14:12:46 EDT

From: diana@Kodak.COM (Gary Diana)
Subject: Homebrew PC Boards

Hello All -

I have purchased pc boards from FAR Circuits, and have been very impressed with their quality and service for the money. After seeing the boards Brad (WB8YGG) had built, I decided to try it myself. So far, I have etched 10 circuit boards from The QRP Notebook and QRP Classics. To do so, I used a flatbed scanner, a macintosh with adobe photoshop, and a good laser printer. Good boards would have been hard for me to build without the above toys... luckily the my place of employment has these things. [Note: you can alternately use a paper copier and overhead material in place of the scanner and printer. If high-resolution scanned images of pc artwork were kept at a central site (ARRL HQ?), we could simply use ftp (file transfer protocol) over the Internet, and the scanning step could be skipped.]

The process starts with scanning the pc artwork from a paper copy. After scanning, the image must be mirrored (flipped). The image is then printed onto a special paper (made by DynaArt). The toner serves as an etch resist. The paper is cut out to board size, then the image is ironed onto the pc board. The board/paper is then put into a container of water, and after a few minutes, the paper floats away, leaving the toner on the board. The board is now placed into the etching solution for 20-40 minutes. You now have an etched pc board. Just drill the holes and you are ready to populate the board with components.

Since the DynaArt paper is expensive (\$3/8.5"x11" sheet), it is desirable to put as many pieces of artwork on the page as will fit, as opposed to just printing one piece of artwork on the entire page of paper. This is where it is handy to have a program like photoshop, which will allow easy manipulation of images. This is the main reason that I ended up making 10 boards, all at one time.

This has been yet another aspect of QRP which has enhanced my enjoyment of the hobby... making my own boards! Will I continue to buy boards from FAR and others? Surely. But I won't hesitate to make my own, either.

Another thing to consider is that FAR doesn't make boards for everyone's projects; consider the KK7B single-signal direct conversion RX-TX projects as an example. The two board set,

available from Applied Radio Research, is \$30. I ordered them a few months ago and still haven't received them!

72/73 and happy pc board homebrewing. Anyone who would like specifics of the above may contact me directly via email.

Gary M. Diana, Sr. N2JGU
Health Sciences Division
Eastman Kodak Company
MC 39014
Rochester, NY 14563
gmdiana@kodak.com OR diana@sneaks.kodak.com

From bruce@Think.COM Mon Jun 28 13:40:21 1993
From: Bruce Walker <bruce@Think.COM>
Date: Mon, 28 Jun 93 13:40:20 EDT
Subject: Homebrew PC Boards

Date: Wed, 23 Jun 93 14:12:46 EDT
From: diana@Kodak.COM (Gary Diana)

...
If high-resolution scanned images of pc artwork were kept at a central site (ARRL HQ?), we could simply use ftp (file transfer protocol) over the Internet, and the scanning step could be skipped.]

I would be happy to keep images of PC artwork available in the QRP FTP repository at Think.COM.

--bruce WT1M

From qrp-request@Think.COM Mon Jun 28 15:00:53 1993
Date: Mon, 28 Jun 93 15:00:10 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: Re: Homebrew PC Boards

The only Problem with an ftp site for mirror imaged artwork is

1. What format?

2. Is it legal? Artwork from 73, QST etc Scanned then put on the net? I hope it is, but it's something I don't know the answer to, I guess that's why I thought that the ARRL holding the ftp site would be good, then at least we could get a part of the artworks out there without legal details.

3. If we can do it, I'll certainly scan a few here or there, to fill the

up the disk!

73 ... Brad WB8YGG

From qrp-request@Think.COM Tue Jun 22 08:38:03 1993
From: mvjif@mvubr.att.com
Date: Tue, 22 Jun 93 08:30 EDT
Subject: Hotel Antennas

Randy, AA2U had a nice hotel antenna at Dayton. We worked stations in the Pacific on it.
Ask him for details....He is on internet.

Also we used to hang a 40m delta loop from the 11 floor balcony at Dayton.... We also found a way to get up on the roof and secretely put antennas there. The delta loop could be deployed in under an hour with 4 people working on it.

A lot of hotels have sealed rooms and no balconies. I thought of bringing a small drill and making a tiny hole to push a wire out through, under the window.

In Dublin IR, I found a way to get up on the roof of a hotel, put up a dipole (I was unsophisticated in those days) but thought I was going to be shot when the militia came running through the hotel.

I recommend a Super Tee Tuner and 2 lengths of wire. 1 for the antenna and 1 for a counterpoise. You may be able to match the antenna by tuning for maximum receiver noise, and have it work well.

The tuner is hi-Q and very sharp. Experiment.

For versatility,
The single endfed wire antenna is probably the most flexible, compact, quickest to erect, antenna for varying and unknown situations, and this tuner, which can be built very tiny has low loss and a high matching capability. The age old caveats still apply however, The higher, in the clear, the better.
A horizontal wire is better for local, and a vertical wire is better for long distance.

An antenna always works better if:
A piece of it comes from a previous antenna.
It is erected during a hurricane or snowstorm.

An old copper toilet tank float is put at the top of the antenna.

Otherwise, Good luck

.

72, Jim - W1FMR mvjif@mvubr.att.com

From qrp-request@Think.COM Tue Jun 22 07:40:01 1993
Date: Tue, 22 Jun 93 07:39:19 -0400
From: Gary Bishop <gb@cs.unc.edu>
Subject: Hotel Room Antennas for HF?

I'd like to carry my 20 meter QRP rig with me on business trips but can only expect to operate it from within the hotel room, early in the morning or at night.

I'd like to find an antenna that:

- 1) stows in a compact package and is light,
- 2) doesn't require a tuner,
- 3) deploys within the room in a few minutes, and
- 4) gets out.

Of course, any of these requirements are negotiable. For example, a very small tuner might be acceptable.

Ideas?

gb wa4fut

From qrp-request@Think.COM Wed Aug 4 09:58:49 1993
Date: Wed, 04 Aug 93 13:31:29 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Huff and Puff

"Huff and Puff" was developed by a PA ham, I believe, and was popularized in the Technical Topics column edited by Pat Hawker, G3VA, in Radio Communication.

The H&P circuit is hooked across a VFO, via a varicap.

While you're adjusting the VFO, the H&P circuit is idle. When you stop tuning, H&P looks every once in a while to see if the VFO has drifted from wherever it was when you stopped tuning it. An error voltage applied to the varicap pulls the VFO back on frequency.

The add-on circuitry had evolved to CMOS logic the last time I noticed, but was still pretty intense for the application. I suppose if I was multiplying a VFO 18X or 24X, I might have to consider something like this, but for VFOs in the MF/HF range it's unnecessary. Using -6 or -7 cores, NP0 capacitors, double-bearing variables and reasonable care in layout and assembly gets excellent VFO stability. The H&P circuits were not intended to cure the legendary drift of the Heath VF-1; they were designed for short-term drift of a few hertz, which is precluded by good design and construction anyway.

Yes, I can provide references, but not at the moment, as my notebooks are at home. I cannot provide photocopies of RSGB material. Back issues may be available from them, though.

72,

KR1S

From qrp-request@Think.COM Thu Jul 29 15:12:01 1993
Date: Thu, 29 Jul 93 19:04:09 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: HW 8 at a fair price

The SW-7800 receiver is a dog, though....

>From: mwprange@vela.acs.oakland.edu (Manfred W. Prange)
>Newsgroups: rec.radio.swap,misc.forsale
>Subject: Radios for sale
>Date: 29 Jul 1993 11:58:32 -0400
>Organization: Oakland University, Rochester, Michigan, U.S.A.
>Lines: 7
>
>Heath SW-7800 Receiver 0-29.999 Mhz, AM/SSB, Wide/Narrow bandwidth.
>Exec cond, with manual. \$250 OBO
>
>Heath HW-8 QRP transceiver, case scratched, worked when last used. \$40 OBO

>
>
>mwprange@vela.acs.oakland.edu
>
>

From qrp-request@Think.COM Thu Jul 8 16:43:11 1993
Date: Thu, 8 Jul 93 16:34:09 -0400
From: okas_rp%ncsd.dnet@gte.com
Subject: HW response

Hello All,

Thanks for all of the responses about my HW-8 posting. Sounds like I'll put on my bargaining hat and try to make a deal. The rig is clean and has no obvious mechanical mods. It's worth a try to peek under the hood. Right now, I'm straddling the fence on which rig to buy. I really like the OHR Spirit, based on postings here and other things I've read. But, the point is made that it's a single band rig... Although, I would like to get a rig that's nearly ready to go without a lot of fuss. I've other rigs for that purpose.

One question still remains for me. What is the typical/best power output from the rig, assuming the proper toroids, etc. are in place? I gather from the responses that this is not a 5 watt output rig, but something less.

Thanks again,

Bob N3MBY

From qrp-request@Think.COM Fri Jul 2 10:01:08 1993
Date: Fri, 02 Jul 93 13:57:42 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: HW-10?

Chuck Adams says:

>HW-10 = SB-104. ;-)

Well, the SB-104 preceded even the HW-8. I had the "pleasure" of constructing the SB-104 used as a demo at the NYC Heathkit store (RIP). Quelle chien! But at least it had a VFO, not a synthesizer.

If Ten-Tec relit the Argonaut 515 production line, and added WARC bands, how much would you pay to own one?

KR1S

From qrp-request@Think.COM Thu Jul 8 12:44:21 1993
From: mvjif@mvubr.att.com
Date: Thu, 8 Jul 93 12:35 EDT
Subject: HW-8

Bob,
\$125 is a fair price for an HW-8 but finding a manual could be a chore.
Low power output on some bands was due to faulty toroid cores, and can be easily corrected.

A couple of lantern cells could power it for 6 months of casual operating.

Look inside at the soldering job (kit) and make an offer (\$100) ?

When you think about it, you get 4 bands of QRP for \$125. That is \$32/band. Much cheaper than any kit (except the Spider) and it has a VF0/

You can have fun adding (in order of importance)

1. In-line fuse
2. SWR meter mod
3. S-meter mod
4. RIT

That sounds good to me. I used an HW-7 for a year before buying an HW-8, and used it for 2 years. The 8 was a giant step up from the HW-7.

72, Jim - W1FMR mvjif@mvubr.att.com

From qrp-request@Think.COM Thu Jul 8 14:33:09 1993
Date: Thu, 8 Jul 93 13:32:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: HW-8

i have two copies of the Hot Water Handbook, which has the HW-8 mods. Michael WA8??? is the author of this book. i don't think

it's still in print. someone might comment on this.

speaking of in print. has anyone gotten any word to/from Ade Weiss on his 'Joy of QRP' and 'History of QRP' to see if he is going to bring them back also. with the influx of new blood, there should be a market there to entice one to bring them back. in fact, i have one and not the other and certainly would like to complete my collection.

inquiring minds wanna know.

72 de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Thu Jul 8 15:28:45 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 8 Jul 93 12:28:20 PDT
Subject: RE: HW-8

Micheal Bryce -- QRP columnist for 73

No, its out of print

Joy of QRP is out of print and no hope of ever seeing the light of day again :-(

You can still get "History ..." from Ade -- I can post his CA address (I presume he is still there -- though the old Vermillion address may still work). Something like \$12 inc postage. A great book.

Kevin

From: Charles Adams <netmail!adams@chuck.dallas.sgi.com>
To: <qrp@Think.COM>
Subject: HW-8
Date: Thursday, July 08, 1993 1:32PM

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Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Thu Jul 8 12:12:55 1993
Date: Thu, 8 Jul 93 12:12:36 -0400
From: okas_rp%ncsd.dnet@gte.com
Subject: HW-8 prices/caveats

Hello All,

After reading the various debates concerning TenTec prices, I'd thought I'd throw out an inquiry. I have an opportunity to purchase an HW-8 for \$125, and is available as a consignment item at the local ham shop. It's been checked out and is claimed to produce ~1.4 t 1.6 watts out on the various bands. No power supply or manual are available with it. The notes accompanying the rig indicate some sensitivity problems on 20m (possibly alignment?) and the switches/pots need to be cleaned. The bottom line: Is it worth the asking price? Is the power output typical for an HW-8? Any other caveats I should be aware of?

I know there are many experienced users waiting to share their opinions, so I await with bated breath...

Bob - N3MBY

From qrp-request@Think.COM Thu Jul 8 14:50:11 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 8 Jul 93 11:42:13 PDT
Subject: RE: HW-8 prices/caveats

This is somewhat expensive I paid \$90 for mine and I thought that was steep but it was in good condition and worked OK. It will keep you busy over the winter adding all those it need mods too it!

I'm looking for a dead HW-8 (to convert to WARC + top band). If anyone comes across one please let me know! Beats moldering on the shelf someplace.

Finally, does it seem to everyone that QRP rigs are getting more scarce and more pricey (especially compared to QRO rigs of a similar age). Any ideas why? Is QRP really getting that popular? Are people collecting them?

Still looking for a WARCed HW-9 (electrical condition unimportant) too!

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From qrp-request@Think.COM Thu Jul 8 14:56:34 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 8 Jul 93 11:53:45 PDT
Subject: RE: HW-8 prices/caveats

Subject: RE: HW-8 prices/caveats
Cc: qrp@think.com

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Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From qrp-request@Think.COM Thu Jul 8 16:35:23 1993
Date: Thu, 08 Jul 93 20:15:22 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: HW-8s, Ade Weiss

Well, it looks like the market is driving up the prices of used QRP gear. I would definitely say the market is growing. Heath bagged it too soon!

Ham radio is growing at an amazing rate. We've gained 100,000 new hams in the last couple of years.

I think the demise of Heath had a salutary effect on the kit business in the US, as many others sprang up to meet the demand. No one is making an 8-bander for \$300, though.

I've recently started learning to fly sailplanes (QRP flying). That sport is in trouble, I think, because the only new sailplanes available come from Europe and cost >\$20k. The last American mfr bailed out about 5 years ago, to concentrate on more profitable segments of its business, just like Heath. Like Heath, this company grew with and contributed to the growth of its sport. Are American companies getting too greedy, to the detriment of hobbies/sports? The new European sailplanes are very high performance, and priced to match, comparable to the Argonaut II. Most of us would be happy with an HW-9 or a Schweizer 1-26, but we have to take an Argonaut II or a Grob 102. Wally, K2IHO (SK), my Elmer, told me to marry a rich woman. Guess I should have listened to him!

I spoke with Ade Weiss on the phone a little over a year ago. At that time, he had no interest in reprinting or revising either of his books. His phone number is available from directory info for his Callbook address, if anyone wants to say "hi." I'm afraid some political snafu with QRP-ARCI sent Ade off, along with a divorce and, I hear, some medical problems. I got this info secondhand, so don't quote me.

As much as I enjoyed his writing, there's certainly no lack of good reading material for QRPers. Perhaps Adrian was like the mythological guide, who could take us only so far along the path. Now, it's up to us

to continue with the quest.

72, KR1S

From qrp-request@Think.COM Tue Aug 10 13:41:21 1993
Date: Tue, 10 Aug 93 17:27:33 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: HW8 for sale on Internet

>From: rdewan@casbah.acns.nwu.edu (Rajiv Dewan)
>Newsgroups: rec.radio.swap
>Subject: FOR SALE: Heathkit HW8
>Date: 10 Aug 1993 15:26:04 GMT
>Organization: Northwestern University, Evanston IL
>Lines: 16
>
> FOR SALE
>
>Heathkit HW8 CW transceiver
>80, 40, 20 and 15m.
>1W out.
>Really nice sound.
>Works but not perfect cosmetically.
>
>Price: \$85 (includes shipping, COD extra)
>
>Lambda 12V power supply for above: \$10 with unit, \$15 otherwise.
>
>Rajiv Dewan
>r-dewan@nwu.edu
>(708) 491 2672 days
>(708) 205 1914 eves
>
>

From qrp-request@Think.COM Tue Jun 29 17:28:53 1993
Date: Tue, 29 Jun 93 16:28:38 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: I Lied

Gang,

i'm sorry, i lied. please notify me if you are ordering a set of the famous schematics for \$12. no reason for me to make two or more trips to the printer. :-) i must of been still brain dead after FD weekend when i said i didn't need the info. not really a lie but

sure looks like it. ;-)

thanks for your support, dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Aug 2 10:04:30 1993
Date: Mon, 2 Aug 93 10:04:25 -0400
From: Gary Bishop <gb@cs.unc.edu>
Subject: I worked RS-12!

After reading the article on QRP satellite communication in the new QQ, I went up to my shack last night about 10pm EDT. I have no tracking software so I was just listening on the beacon frequency to see what I could hear. Sure enough, I could imagine that I could hear the beacon in there on 29.40872. As I listened it got stronger and stronger. Tuning up the band I discovered 5 or 6 CW signals and 2 or 3 SSB signals calling CQ RS. Some of these signals were hitting S-3!

I put my Ten-Tec Paragon in split mode, transmitting on 21.230 and listening on 29.430. (No way to hear myself with only the one GAP vertical antenna). I turned the power all the way down and responded to a CQ from N4ZC. He came back to me!

I worked Mount Holly, NC from Apex, NC (maybe 200 miles) via RS-12. Switching to the input frequency I couldn't quite copy his up signal.

Anyway, I got a new kick from my first satellite contact. Gotta send Roger a QSL.

gb

From qrp-request@Think.COM Wed Aug 25 10:28:07 1993
From: "Kevin Anderson" <GGANDERSON@augustana.edu>
Date: 25 Aug 93 09:30:30 GMT-500
Subject: Icom IC-707

re: ICOM IC-707

I hope besides price, the first person who gets the full literature sheets in the mail will let us know the scoop. I know I am curious about it.

kevin anderson, KB9IUA

Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu

From qrp-request@Think.COM Wed Jul 28 14:00:29 1993
Date: Wed, 28 Jul 93 13:52:37 EDT
From: klaudon@PICA.ARMY.MIL
Subject: Include PowerMite!

The ads for these rigs (I think I sent away for the data sheets) were my first exposure to Ten-Tec. In fact, I had never heard of the company before, and hadn't since until they started producing other more advanced rigs in the later 70's. Just exactly what were they making in those early days, besides the Power Mites? Were these rigs their first product?

I have never seen one in the flesh, but wanted one ever since I saw those ads for these cute, inexpensive little rigs! But in those days, I thought, how useless and undesirable was a rig that only put out 2 watts!! Hey, I was only a teenager, give me a break! At that age, bigger is better and too big is still not enough!

But if I ever find one now I will surely buy it for nostalgia sake. (oops, I thought I was posting this message to boatanchors! Nostalgia is relevant to solid state, too!).

So I cast a strong vote to include data on the Power Mites in a future edition of Chuck's Schematic and Internet Entertainment Gazette!

On a serious note, I would like to compliment Chuck on his schematic compilation. I would like to offer a suggestion for the future. I think that if available, the manual page(s) showing drawing or photo of the front and rear panels, or side if appropriate, should be included. These are valuable in aiding identification of used rigs, id of controls, connectors, etc. I, for one, have been out of the hobby for a while, and don't KNOW a lot of today's commercial rigs by sight. And the panel views are very useful for a variety of reasons.

72 to all,
Kalman Laudon WD6CZI <klaudon@pica.army.mil>

From qrp-request@Think.COM Fri Jul 23 10:54:52 1993
Date: Fri, 23 Jul 1993 10:54:44 -0400
From: Stephan Greene <sgreene@access.digex.net>
Subject: Index labs QRP+

I called them and they sent me a nice black and white glossy one page brochure on this radio. It is very nice! (the radio - though the brochure is nice. too!)

Control layout appears very simple and straightforward. There are only two displays - the digital frequency readout (good to .1 kHz, if the picture of the rig is accurate), and what appears to be an s-meter on the lower left corner of the front panel. There is a large central knob for freq control, and a small knob for AF volume (no rf gain, but there is a 20 dB attenuator switch). There are two toggles - one switches in the rf receive attenuator, the other toggles between xcv, rit, and split modes.

Four pushbutton switches control memory read/write (there are 20), toggle rev/split operation, and activate the SCAF digital filter (100 Hz - 2400 Hz, continuously adjustable). According to the brochure, the main tuning knob becomes a control to set the appropriate value, depending on which button was pressed.

The rig is very small, measures 5.5" W x 4" H x 6"D. It has a single leg on the front to elevate the front panel. Power consumption is stated as 1A @ 12V xmt, 140 mA rcv. Freq coverage is 160M - 10M (I called them, and if my memory is correct, it has general coverage reception across that range, plus amateur band xmt). Modes are CW and SSB, though I was told it will handle anything you can put in to the mic connector (which is probably mounted on the back panel - it is not visible in the photo). I was told the transmitter amplifier is operating in a "derated" mode in this rig - it has plenty of design margin to handle high-duty cycle operation like RTTY. (Note - I asked Ten Tec about this on the Scout - their tech DID NOT recommend QRP RTTY or AMTOR operation for the Scout.)

Index labs wants \$595 for this gem, with deliveries in (I think) mid August or so. (But call them and find out for certain!).

You can reach Index Labs at 19913 48th Street, Longbranch, WA 98351.
(206)884-3855.

Now my question: I was told that several of these rigs (beta test/early production)

were in the field for a while, including Field Day operation. I recall reading that one was on display at Dayton or Dallas. So has anyone on the net seen, or better yet, used one of these rigs? What are your thoughts, comments, and observations? If you were in the market, WOULD YOU BUY ONE? (IMHO, this is what the Argonaut II should have been!)

Std disclaimer - I don't work for Index Labs, don't own any stock, am not related to anyone who does, etc... I don't even own one of their rigs (yet?). I'm just impressed by what they seem to have accomplished!

73, Steve Greene

KA1LM

sgreene@access.digex.net (alias ka1lm@amsat.org)

From qrp-request@Think.COM Fri Jul 16 12:19:45 1993

From: jpo@acd4.acd.com (Jim Osburn)

Subject: Indy Hamfest

Date: Fri, 16 Jul 93 10:21:56 EST

At the Indy Hamfest last weekend, I purchased the following items.

Two National Velvet Verniers for \$7.50 each. I thought that was the buy of the day. The dials are metal and were corroded when I bought them. I polished them up with some extra fine steel wool and now they look great.

Four 100 pF air variable capacitors for \$0.25 each. These are double bearing units with a ball bearing in front. They look "new", there isn't any solder on the terminals. I'll make VFO's with these.

Two 100 pF Hammerlund air variable capacitors for \$0.50 each. I'll make a transmatch with these.

I also bought a pile of books for \$0.50 each, including a copy of an RSGB publication on test equipment, and a copy of a Heathkit manual for the VFO that I think goes with the HW-16. I have no need for the VFO manual. If anyone needs it, send me a big enough S.A.S.E. with enough postage and I'll send it to you.

Eight rubber feet for \$0.50 total for some cabinets I have.

A vendor in the flea market was selling a Ten-Tec Power Mite for \$40.00. I thought that was too much.

Another vendor in the flea market was selling a MFJ 20 m QRP rig for \$110.00. I should have bought it but I was too poor.

A vendor indoors was selling new 2.2 Ah, 12 V batteries for I think \$6.00.
I already have enough batteries so I didn't buy any.

It was a good hamfest.

Jim, WD9EYB

From qrp-request@Think.COM Mon Jul 19 16:16:16 1993
Date: Mon, 19 Jul 93 15:16:00 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: International Crystal

Michael Stein pointed out to me that Intl. Xtal had some other stuff in their 1969 catalog, like RF amp, power amp, rf mixers, and broadband amplifiers. i do not have those schematics. if someone has those, the schematics thereof, we'd me most appreciative to get them and distribute them.

i hope this is not a waste of time. since 1969, we've probably come up with better designs, cheaper, etc., but you never know until you play with them. i was looking for something for the beginner to play with, not spend a lot of money on, learn how to solder etc. and actually get on the air.

i may be going down the wrong path on this and i'm willing to listen to anyone at any time..... the doors always open. come on down....

72 de k5fo dit dit

p.s. i did tell you that one of the administrators in this office in dallas was the daughter to the founder of Internation Crystal. is this a small world or what?

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Wed Jul 7 09:24:04 1993
From: mvjif@mvubr.att.com
Date: Wed, 7 Jul 93 08:22 EDT
Subject: Internet

Can anyone tell me how to get basic information on internet ?

Other QRPers want to join but I do not know what to tell them. Everything here at work and out there, has been done for me. I dont know who runs it, or how to get even basic information on it, or how to tell someone how to subscribe, or how it works, or anything. I am just using it.

Thanks

72, Jim - W1FMR mvjff@mvubr.att.com

From qrp-request@Think.COM Wed Jul 7 12:05:22 1993
Date: Wed, 7 Jul 93 08:35:57 PDT
From: mont@ibmmail.COM
Subject: Internet

From: mvjff@mvubr.att.com

> Can anyone tell me how to get basic information on internet ?
>
> Other QRPers want to join but I do not know what to tell them.
> Everything here at work and out there, has been done for me.
> I dont know who runs it, or how to get even basic information
> on it, or how to tell someone how to subscribe, or how it works,
> or anything. I am just using it.

Internet, my favorite subject. Finally something I think I can contribute on for this group.

There are many books at the bookstore that discribe all the ins and outs of internet and email. One book I found useful is UNIX COMMUNICATIONS by the WAITE GROUP. This one covers mainly email, email addresses, and uucp. I sure others can recommend very good books on other aspects of internet, ftp, telnet, gophers, etc.

But wait! Once I have all this wonderful information where do I go to get an account, you may ask. This is the part that amazed me. Unless you have an email account from at a college, or your employer has provided you with an account, how do you go about getting one? For myself, I never new that anything like internet even existed until one day I overheard a fellow

contract programmer mention he had an account with a particular service provider (I won't advertise names here, no need to anyway). Even though his account was more like prodigy, all menu driven, it did have email access. Later, by chance again, I found a company that provides dialin accounts with access as a regular user, choice of bourne shell, C shell, or Korn shell, and full access to internet including email, news readers, ftp, telnet, uucp, etc. I was surprised that I had not seen any ads for these companies and that only by accident I had found out about them.

Anyways, here's the point. There is a site on the net that maintains a list of all known service providers. The list is called NIXPUB. You can get it by doing one of the following:

To subscribe for regular updates send mail to
nixpub-list-request@ls.com

To just get a current list send mail to
archive-server@cs.widener.edu
in subject or body of message put
send nixpub long
or
send nixpub short
or
send nixpub long short
or even
index nixpub

There are more ways to get the list. They are explained on the list itself. But since I know everyone here at least has access to email then I know the above will work fine.

The NIXPUB list contains a list of internet service providers, the type of access they provide, and how much they charge if any. There are quite a few that provide email access at NO CHARGE.

Get your copy of NIXPUB today, and get all your friends connected for free.

73 & cul,
de km6wt, mont

From qrp-request@Think.COM Wed Jul 7 10:38:28 1993
Date: Wed, 07 Jul 93 14:21:45 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Internet

Jim Fitton asks about Internet connections. Delphi offers limited access at the moment. Via Delphi you can read mailing lists like this one, but not Internet newsgroups like rec.radio.amateur.flamefest.

You need a terminal/computer and a modem. In many parts of the country the telephone call is local; if you live in the boonies you may have to pay for the call.

Delphi offers two plans: One is \$20 for 20 hours + \$3/mo for Internet access as noted above. The other plan is cheaper and fewer hours.

If you can send email, you can request info from Delphi: INFO@Delphi.com.

I am neither a subscriber to nor an agent, affiliate or employee of anything that even vaguely resembles Delphi. I saw their ad and asked for more info. I'm waiting til they get full access so I can see how much they charge before I sign up.

You can also read mailing lists like this one through MCI Mail, Compuserve, and, I believe, America OnLine.

If you can "telnet" from work, it's possible to access Internet through some sites at universities, though most of these sites really can't handle a great deal of additional traffic.

73, KR1S

--

jkearman@arrl.org

From qrp-request@Think.COM Wed Jul 7 15:53:34 1993
Date: Wed, 7 Jul 1993 12:50:43 -0700 (PDT)
From: "Kevin W. Russell" <krussell@netcom.com>
Subject: Internet Access

I have internet access via a service provided by Netcom Online Services in San Jose. I pay 17.50 a month for an unlimited use shell account, including full news, mail, ftp, telnet, etc. I highly recommend their service and have been a client for about two years. You have to pick up the long distance if you are not in their access areas. By using it at

night I pay about \$6/hr for access. They have access in several CA towns as well as Portland, Dallas, Seattle, and some other places. You can get info via info@netcom.com or call 408-241-9760 with your modem and login as guest. I am not connected with Netcom, just a happy customer.

Kevin

Kevin W. Russell (N7QKU)
Salt Lake City, Utah

krussell@netcom.com
(801) 575-3251

From qrp-request@Think.COM Wed Jul 7 11:03:09 1993
Date: Wed, 07 Jul 93 14:54:04 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Internet postings

I copied this postings from Internet's rec.radio.swap.
The SB-104A had selectable 1-watt output. If this radio works as advertised, it would make a good foundation for a QRP rig. It doesn't cover the WARC bands, but considering that single-band rigs cost over \$150, \$250 for 5 bands SSB/CW + heat when you need it seems like a good deal. I don't think this rig has RIT, but it wouldn't be hard to add.

>Newsgroups: rec.radio.swap
>From: pazar@sr.hp.com (Steve Pazar)
>Subject: FOR SALE:Heath SB-104A Xcvr
>Date: Tue, 6 Jul 1993 20:29:48 GMT
>Organization: HP Sonoma County (SRSD/MWTD/MID)
>Lines: 16

>

>Fellow Hams,

> As the title says, I've got a Heathkit SB-104A tranceiver for sale.
> It is ALL solid state, digital display (counter type), 80 - 10 meters
> SSB/CW. 100 watts out in all modes. It is in good working and cosmetic
> condition. Desk mic and manual included. This rig operates on 13.8 volts,
> power supply not included (I use a battery...). Asking \$250 FIRM and
> buyer pays shipping.

>

>

>*****

>* STEVE PAZAR DoD #702 Kawasaki KZ440A

>* E-mail: pazar@hpnmdla.sr.hp.com

>* Ether: WA4DUT/6

>* " Imagination is more important than knowledge "
>*****
>

From qrp-request@Think.COM Fri Aug 6 17:03:54 1993
Date: Fri, 6 Aug 93 16:03:47 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Intersil ICM7216D

needed: source for the ICM7216D (no other substitutes
unless it's an EXACT replacement in every sense of the
word). if we can pull this off gang, we'll have the
ultimate display.

any help appreciated. this part lists for \$27 or so.

have a good weekend,
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Aug 6 17:39:59 1993
From: jfw@ksr.com (John F. Woods)
Subject: Re: Intersil ICM7216D
Date: Fri, 06 Aug 93 17:37:23 -0400

DigiKey has the ICM7216DIPI for \$28.10.

From qrp-request@Think.COM Tue Jul 20 11:43:58 1993
Date: Tue, 20 Jul 93 11:43:43 EST
From: jennings@abb.com
Subject: Isolooop 10-30 and Super Hi-Q 10-30 antennae

Hi,

A friend of mine wants your input on performance and
experience with
 AEA's Isolooop 10-30 and
 MFJ's Super Hi-Q 10-30 loop
antennas.

I will be happy to summarize the responses.

Thanks and 73.

Tom Jennings, kv2x

jennings@abb.com

From qrp-request@Think.COM Tue Jul 20 13:37:56 1993
Date: Tue, 20 Jul 93 17:27:39 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Iso loop 10-30 and Super Hi-Q 10-30 antennae

The last I heard, the MFJ loop was vaporware. The Iso loop works but it's big bucks. Your friend should read "Low Profile Amateur Radio," by somebody on the ARRL staff. It has some plans for cheap loops that work well.

KR1S

From qrp-request@Think.COM Wed Jul 21 00:51:55 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Tue, 20 Jul 93 21:51:07 PDT
Subject: Re: Iso loop 10-30 and Super Hi-Q 10-30 antennae

Most of us get the joke, but those of you who don't know you are the author maybe think this is an unbiased recommendation.

Not a bad book, though.

Kevin Purcell N7WIM/G8UDP

From: Jim Kearman <netmail!jkearman@arrl.org>
To: <QRP@Think.COM>; <jennings@abb.com>
Subject: Re: Iso loop 10-30 and Super Hi-Q 10-30 antennae
Date: Tuesday, July 20, 1993 5:27PM

The last I heard, the MFJ loop was vaporware. The Iso loop works but it's big bucks. Your friend should read "Low Profile Amateur Radio," by somebody on the ARRL staff. It has some plans for cheap loops that work well.

KR1S

From qrp-request@Think.COM Tue Jul 27 09:16:24 1993
Date: Tue, 27 Jul 93 08:16:13 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)

Subject: IT'S HERE

Gang,

my copy of the July 1993 Volume XXXI Number 3 issue of QRP Quarterly (QQ) arrived yesterday.

congratulations to AA2U, Randy, on this group for his 300 country seal #66C dated 11/28/92. this means that Randy has worked over 300 countries QRP. determination, dedication, and lots of hard work.

i just read W9KNI's book on DXing and i've dedicated myself to DXCC in under one year starting date July 25, 1993. up to 5 countries so far. 40 hasn't been all that bad. was hearing EU last nite about 11pm CDT (0400Z or 0400UCT, whichever you prefer). oh, that's DXCC 40mtr CW QRP. gotta make it challenging. ;-)

i'll post separately the QRP ARCI History, Purpose and Policies for the QRP list. do we call this group the Internet QRPers (IQ)? are we a net (short for network)? maybe we outta give ourselves a name. bad idea? badges? secret handshake? just an idea..... :-)

ok, off to teach..... i do work sometimes.....

you have a good day and good propagation,

72 de k5fo dit dit
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Jul 16 10:44:42 1993
Date: Fri, 16 Jul 93 09:44:30 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Jim & Jeff (J&J)

first of all to Jim, W1FMR. good luck on the new position and you come back real soon. we'll miss you and i mean that. i'm sure the rest of the gang will too.

let's not start an exodus of all the famous people. wish i could be at the fest to hear the QRP contest record holder Randy

talk.

Jeff, sorry but the Summer Homebrew Sprint-CW contest was LAST sunday from 2000-2400Z. i missed it to, but did work KP4DDB at the tail end of it. guess i could submit a log of one contact. go for the lowest non-zero score. ;-)

72 to all de k5fo dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Jul 15 16:23:44 1993
Date: Thu, 15 Jul 93 15:23:26 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: just when you thought....

Gang,

just when you thought it was safe.....

did you see the posting in rec.amateur.misc?

Danny Stevig, KA7QJY, has moved to

Dan's Small Parts and Kits
1935 S. 3rd W. #1
Missoula, MT 59801
1-406-543-2872

partial list:

40 meter cubic incher	\$12.50
Two-Fer Xmtr	\$22.50
Neophyte Receiver	\$22.95

and

20 Meter Superhet Transceiver \$49.95 from Jan 1993 QRP Quarterly.

the last item is the one i sent my check off for. i was looking at the article last night and it looks like it outta work great. reminds me in some ways of the MXM xcvr now in progress.

oops. QRP crystals 14060, 3560, 7040, 10106 are \$5 each.

shipping and handling \$3.75 per order. make check payable to Danny Stevig.

Jeff Jones, AB6MB, posted the info and i'm repeating it here FYI. i have heard good things about Danny, so i'm gonna try him out.

Hey, i got outta the building mode now it looks like i'm back!

this group was getting too quiet anyway. i think i'll get the list and start down it and ask you to write something witty.

ok, let's get serious here. i want YOU to get off your TV chair when you get home and do the following. think about what you'd want on a 8.5x11" sheet of paper showing your shack, etc. NOW, before July 31 send me photo(s) and QSL card. i'll scan them in and then print them off for another 8.5x11 3-hole punched packet for distribution. i think it'd be nice to see the latest and greatest from Ed, Jim, Jeff, Doug, and the rest of the group. i'll return the card and the photo later. i promise. i don't have much room left anyway. ;-)

this will be the QRP internet Hall-of-Shame Book. :-) at least a photo of the rigs even if you wanna be anonymous. afraid that i might recognize you at some swapfest? don't wanna talk to me? OK, i understand.....

72 de k5fo dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Sun Jul 25 17:48:49 1993
From: jjw@precipice.chi.il.us (John Welch)

Subject: KA7QJY Components name change
Date: Sat, 24 Jul 1993 21:31:55 -0500 (CDT)

For those who were curious why Danny Stevig changed his company's name when he moved, he said it was to make it easier at the bank. He didn't have a 'business' account, and when people made the checks out to KA7QJY Components, he had a major hassle cashing them.

As that happened to me once on a side job, I can fully sympathize with him. He would *still* like the check to be made out to him, but the 'new' name will be easier on him if it isn't.

--

John Welch, N9JZW

From qrp-request@Think.COM Mon Jun 28 11:14:40 1993
Date: Mon, 28 Jun 1993 10:14:28 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: Kent Keys

I received and built my 2 Kent Key kits.

The first one I buildt was the Twin Paddle Morse Key kit. It has a real heavy steel base. The main parts are machined from brass bar. It has ball race bearing, solid silver contacts and fine pitch screw threads with instrument knuled heads that allow precision and individual adjustement on each of the two contacts and springs.

The kit comes with the main pars assembled. It was fun to put together.. and very easy. I suggest reading each sentence of the instructions a few times before acting on it. The directions are kinda backwards in my opininion.. EX: it will tell you to mount a part with a certain size screw.. after you have put on the necessary washer and solder lug.. instead of telling you to put on the solder lug, washer and then mounting the part.. no big deal.. still easy to put together.

Really pretty key... the plastic paddles can be mounted either with the pointed parts up or down.. I tried it both ways and mounted them up.. fits the way I send perfectly.

The paddles work GREAT.. you can adjust them down to "breath on them" level of sensitivity. I sold my Benchers immediately after using them. They can't fly apart like Benchers.. the arms are solid.

Next I put together the Solid Brass Morse Key kit.. a BIG

straight key.. Had fun putting it together. This key is tied with the nicest feeling straight keys I have ever used.. still also like my Merrick solid brass from Canada. The Kent has all brass parts on a nicely finished piece of wood that has weights that go inside it.

The Kent is really nicely weighted...precision adjustable.. haven't had time to try every possible adjustment yet.. but easily got it to the point of loving the feel. Has a big knob with the flat underpiece..I am experimenting with a different approach to sending with it...I think it is like the old telegraph style.

A great key.. only thing I don't like is they should have used a harder wood.. the wood can be indented with any pressure.. not good for really using it environment.

I feel both keys were bargains.. don't remember exactly the prices (sent them in with the order). I think the paddles were around \$65 and the straight key around \$75 or visa versa.

R. A. Kent Engineers
PO Box 809
Mount Ida, AR 71957-0809

73

Jeff, AC4HF

From qrp-request@Think.COM Mon Jul 5 16:32:33 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Mon, 5 Jul 93 13:33:06 PDT
Subject: Kirsta Keyer

Fred Bonivita has been promoting this -- almost identical articles appear in the NE QRP's journal "72" and the MI QRP's "T5W". And SPRAT had an article about it a couple of months ago.

This is a small no frills iambic keyer (mode A or B not specified -- does anyone know?). The pcb is smaller than a 9v battery at 1.5" by 2". It has only one control for speed. The design is a voltage regulator feeding an NE555 as clock generator clocking a custom PAL. The PAL drives a small reed relay through a transistor, so I imagine it'll will key anything with a low current line.

The kit is 16.50 pounds sterling. The PAL is available for 5 pounds sterling. They do have VISA and M/C now -- when I first read of this kit in SPRAT they didn't have this. This removes all your hassles with money conversions. When Fred ordered the kit it cost him just a little over \$25 (inc airmail postage) and the kit too 10days to arrive. He built it in 1/2 hour and it worked first time. If you can get the 555 to oscilate then this kit can't really fail to work!

If you've been looking for a kit to ease you into construction but haven't got around to it then this could be for you.

Ordering details:

Kirsta Computer Ltd.
35 Main St
Dunfermline
KY11 5ND
Scotland

Yes, GM-land!

KCL002 IC is #4.95
full kit is ##16.50
built and tested is #21.00
airmail postage is #1.00

You can get a flyer and order form frokm the above address, but I figure a letter would would just as well.

Fred suggests putting it in an RF tight box -- presumable to keep the digital rubbish and (and perhaps to keep the RF out -- dunno how suscptible this is to stray RF).

I'm planning on ordering one.

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
"We conjure the spirits of the computer with our spells"

From qrp-request@Think.COM Fri Jul 2 10:13:32 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Labeling Front Panels
Date: Fri, 2 Jul 93 8:25:51 EST

Recently I needed to make some little modules for one of our customers. I needed to label the modules quickly and neatly so I used a sheet of adhesive backed repro film.

I designed my label on the computer, then I feed the repro film through the laser printer to print the label.

I then cut the label to size, peeled off the sticky back, and stuck it to the module.

It looked better than I anticipated.

The repro film is translucent so the color of the module comes through.

You might want to spray the label with clear acrylic to make it last.

The repro film is made by

Rayven, Inc.
431 N. Griggs St.
St Paul, MN 55104
(612) 642-1112

I think we got this stuff from the local drafting supply store.

I have a hunch a full box would cost an arm and a leg.

I just found the stuff listed in a local office supply store catalog.

A box of 100 8.5" x 11" sheets is \$65.00.

73,

Jim, WD9EYB

From qrp-request@Think.COM Mon Jul 19 11:58:38 1993

Date: Mon, 19 Jul 1993 10:58:24 -0500 (CDT)

From: "Jeff M. Gold" <JMG@tntech.edu>

Subject: LB Quad review

OK,

Here is the review I promised:

Lightning Strikes

Review of the Lightning Bolt 5 band, 2 element cubical quad:

Gain: 8db

F. to B. 26

Side Lobe 50

Boom diam. 2"

Turning radius 10.6'

Weight 25lbs

Arm Length 13'4"

Actual SWR measure after installation using given assembly measurements:

10 Meters:	28.000	2.0:1
	28.200	1.7:1
	28.300	1.5:1
	28.500	1.12:1
	28.700	1:1
	29.000	1.2:1
	29.700	1.6:1

12 Meters: 1.5:1 or better

15 Meters better than 1.4:1

17 Meters 1.5: or better

20 Meters:	14.000	1:1
	14.100	better than 1.2:1
	14.350	1.2:1

* I just did what the instructions said and did no tuning (yet)

The Saga Begins:

I really wanted a directional antenna. All the work involved scared me. I saved for a while and went to the big Hamfest in Huntsville, Al. This was my first big ham fest. I had enough money to buy a two element 3 band Yagi. I would then save for the tower and the rotor. I went to the hamfest and hung around the antenna booths asking a lot of questions. I came across the Gap booth and there seemed to be a bunch of people who had previously purchased a Gap Vertical and were very happy with their purchase. My elmer has been using the Gap with very good results for a long time. I ended up spending my money on a Gap. The Gap was very easy to assemble and put up and I have used it for two years.

I really love QRP and was getting the directional antenna bug again. A friend has a quad and I think they are really nice looking and have heard him up against a local Mosley tri-bander chasing DX. The quad seemed to get through a lot better. About a year ago I sent for the literature on the Lightning Bolt five band two element quad. I read a lot about the pros and cons of quads versus yagis and decided on a quad. The work involved and the cost kept me back.

Progress

A friend offered me 30 foot of tower that matched 30 foot of tower that held my TV antenna, this was the first sign that I needed to take some action. The second sign was that my TV antenna was about dead. The third sign was the article in CQ magazine saying the Lightning Bolt really worked well.

I took the old TV antenna down from the tower and mounted a new one on my roof attached to the chimney. Had loads of fun with wrong parts and such. This freed up my tower. The only problem was that I had very large trees all around the tower. I got out my chain saw and tuned it up. I ended up having to take down seven trees that were all 70 foot or bigger. Luckily a new ham friend happened by with his pickup and helped out. Instead of cutting up the trees, we hooked them to the truck and pulled them into some acreage I don't use.

I then had to pull the top of the tower off and added an extra 10 foot section and put the top section back on. This turned into quite a project. This was bested by putting up of the 21 foot section of thick walled steel pipe. I think anyone who puts up a tower needs to find a friend with a Cherry Picker. Without any special devices except for a climbing belt and rope, we managed to drop the mast down through the middle and back thru the appropriate support.

Building the Antenna

All of this was taking place over a month and a half period. My antenna had arrived about three weeks after cutting down the trees. The instructions were only a few pages long. There was only one unclear part in all the instructions. This involved the tuning stubs for the reflector element. There is a section that describes an eight inch variable stub and then the next section gives exact measurements for the stubs for each of the 5 bands. I chose to use the specified measurements and didn't figure I wanted to mess with this antenna if in fact I ever got it all assembled.

I took my time building it. I assembled the spider parts one night then built the reflector then the driven element. You only need to be careful with the wire. It likes to coil back up and could really get you hurt if you let go of it. We were pretty carefull cutting the wire which was a little hard because of the type of wire, but nothing to worry about. It is really pretty easy to put together and very light.

Finished

Well we finally got everything built and I wanted to see the antenna work. The temperature was about 99 degrees and much hotter on the roof. It took about 5 hours in the hot sun getting the elements on the boom and the rotor working right.

I went into the house very nervously. I took out my MFJ digital antenna analyzer and hooked it to the antenna. I let out a big sigh of relief and went outside yelling and screaming. My friend who was helping me was still strapped to the top of my tower and was very relieved to hear the good news.

On the Air

We were both pretty heat sick at this point, and drenched. I turned on the radio and actually plugged in a microphone, something I hadn't done in a while. I worked VP5M in the Caicos Islands on 15 meters, then I8UDM first call thru a pileup on 17 meters, CT1GG/CU3 first call to the Azores on 17 meters.

I hooked up an antenna switch and went back and forth between my Gap and the Quad. the Gap would read 51 and the quad would read 57 to 59. In some cases I couldn't even hear the station on the Gap and he would be nice and strong on the quad.

The Real Test

WS4S, the only other QRP'er in town came over the same evening to help work on a friend's tube rig. He had to play with the new antenna before we started on the rig. The first thing he did was turn the power on the rig down to 1 watt and worked 4X1EL, after which I worked him also.

He was grinning and getting ready for some serious experimenting. He turned the power down to 20 MW and worked Z36CXN in Macedonia. I really wanted the same station, so I cheated and cranked the power all the way up to 70MW.

Next he said. "this will be futile, but I am going to call CQ." He turned the power to 50 mw and called CQ once. He said, "this is futile."

I said, "you better stop talking about QRP that way, try again."

He called one more time and Y08CDC came back to him. He talked to this guy on 20 meters and turned the power down to 10mw. The RST was 549.

Next he worked HA5HC in Hungary. He started with 50mw and the RST was 579. He started chatting and turned the power down to 10mw. The RST was now still 579 and Emil reported the signal was nice and strong. Next he turned the power to 1mw and the RST went all the way down to 559 with a good report. Conrad, WS4S talked with Emil for quite some time on LOW POWER.

Guess

Well my feeling is the antenna is working ok and that I got my money's worth. As I keep saying, "you shouldn't have low expectations on performance just because you are using low power."

Jeff, AC4HF

From qrp-request@Think.COM Tue Jul 27 13:32:13 1993
 Date: Tue, 27 Jul 93 17:29:01 GMT
 From: jkearman@arrl.org (Jim Kearman)
 Subject: Let's sign him up!

>From: swamik@orca.ele.uri.edu (Swami Kumaresan)
 >Newsgroups: rec.radio.amateur.misc
 >Subject: Attn QRPers!!!!!!1
 >Date: 26 Jul 93 23:26:22 GMT
 >Organization: URI Department of Electrical Engineering
 >Lines: 41
 >
 >Hi!
 >
 > I am a newbie to QRP. I just purchased an MFJ 20m qrp rig. I am asking
 > QRP(p)ers in New england (actually 1 land and 2 land) to send me email with s
 >ome
 > info abt their setup. i.e. Call, Name, QTH, rig(s), pwr, band(s), freq(s), et
 >c.
 >
 > Perhaps we could even start a small net for people new to, interested in, or
 > long time qrp(p)ers. I know there are other nets, but maybe a new small new
 >england one would be nice.
 >
 > Please respond with the info asked for to
 > swamik@orca.ele.uri.edu
 > Subject of msg should be QRPLIST (I have written a simple prog to filter
 > out these msgs and compile them into a file.) I will post the list when
 > I am finished.
 >
 >
 > ***** New Subject *****
 > Also, I want to make a sked with K3KMO. Does anyone know when and where he
 > is on CW (I have 20m only). And if possible cud someone inform relay
 > my request to him. I read his Mortorcycle mobile article in QST and wud
 > like to make a sked on 20m.
 > tnx!
 > *****
 >
 >
 >
 >-----
 >_

>
>Swami Kumaresan
>swamik@orca.ele.uri.edu
>swamik@morio.e-technik.uni-kl.de
>KB1AMB@KA1AZ.RI (Ham Radio BBS)
>kb1amb@kb1amb.ampr.org AMPRNet (Amateur Packet Radio TCP/IP Network)
>
>KB1AMB/AA Advanced Class Amateur Radio Operator
>I Monitor 147.165/.765 Repeater
>& 20 meter band (CW)
>
>73s
>-----
>_
>
>

From qrp-request@Think.COM Mon Jul 19 16:52:12 1993
Date: Mon, 19 Jul 1993 15:51:44 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: Lightning Bolt info

For those of you who want to know:

Lightning Bolt Antennas
RD#2 R19
Volant, PA 16156
(412)530-7396

5 band 2 element \$289 +shipping. Lots of other
configurations available... he will custom make antennas...or
so the add says..

Unfortunately I am not connected to any companies and the
funds for all my projects come from money stolen from my
children's lunch money...(HI HI).

73

Jeff, AC4HF

From qrp-request@Think.COM Tue Aug 3 15:48:09 1993
Date: Tue, 3 Aug 93 15:50:02 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Message for Kevin Purcell

OK, I'm confused. Which address should I use?

BTW, Our mail server has been down since Friday....

To the Group: Sorry for the wasted bandwidth....

73,

Larry KQ4BY

From qrp-request@Think.COM Thu Aug 12 08:37:10 1993
Date: Thu, 12 Aug 93 08:37:15 EDT
From: majewski@erim.org (Ron Majewski)
Subject: meteor report from Michigan

Hello to all-

I found a dark spot in the country and watched from
9:30 - 10:30 EDST. I caught about a dozen meteors over that hour.
More like a drizzle than the shower/storm they predicted!

The 6 meter band was fairly active here in en82. I worked
k1tol in Lewiston, Maine (fn44) via scatter using 10 watts. An
exciting qso and a new grid square for me.

72,

Ron (wb8ruq).

From qrp-request@Think.COM Thu Aug 12 11:14:59 1993
Date: Thu, 12 Aug 93 10:14:49 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: meteor shower

Gang,

i went out over 40 NW of my "ranch" to a dirt road NW of Krum TX.
population 200! dark sky.

i saw about 40 the first hour 9-10 then a real good run starting
at 10:20 to 10:45. then almost nothing, so left at 11:15CDT and
back to ranch after midnight.

about 15 good fireballs and some faint trails about twice diameter
of the moon. if people are not where it's dark, they will miss these
'minor' meteors.

i went out in a pickup truck and used lounge lawn chair to sit back and relax. since i was going to be out a couple of hours, i took the 20 and 40 meter WD4BUM antenna sticks and the 72 xcvr and the MXM 40 meter xcvr. thus, i was able to listen to the bands and watch at the same time.

20 meters was dead except for a couple of weak stations and W1AW bulletins. 40 meters wasn't all that busy either. guess everybody was out watching. heard some VE's and CO's. heard more than the usual amount of W5s, which meant that the band was short for a while.

in all, about 65 meteors and some CW in the same trip. i forgot the keyer and wasn't thinking that i could have worked anything at the same time.

during this whole time not a single car went by me on the road where i was parked. temp about 84F with slight breeze. not bad and NO RAIN.....

hope you did as well,

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Aug 12 09:24:35 1993
Date: Thu, 12 Aug 93 09:24:07 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: meteor sprinkle in Upstate NY

Well, I too was out with my family from about 9:00 to 10:30.

My wife saw a beauty of a meteor with a red dotted trail as she described.

The rest of us saw many firey ones, but they tapered off after 9:40 or so to just the bright ones with whitish tails. All in all we saw about 10-15 meteors and probably 20 satelllites go over while watching. There was just enough clear viewing right overhead to see some.. 73

Brad WB8YGG

From qrp-request@Think.COM Fri Jul 16 14:01:39 1993
Date: Fri, 16 Jul 93 13:01:24 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: MFJ 20m Rig

Jim, WD9EYB, in his new posting (thanks Jim) told us about the Indy swapfest. good show on his pickings.

he mentioned the MFJ 20m QRP rig for \$110.00. that's Rick Littlefield's, K1BQT, design. in the Jan 93 QQ, Dave Benson, NN1G, has a later update on the design. Danny Stevig, see previous postings by group, has kit for \$49.95 + \$3.75 for postage. this gets you the two boards plus all the components on the board and the air variable.

so, you'll then need the famous K5F0 cabinet and plugs for power, antenna, key, and phones and switch and knob and pointer and you'll have a rig ready to rock and roll. i've got one on order and hope to have it by next thursday or so. hope to build it and use it mobile on the way to OKC, but i'm not holding my breath. i know that dave little, NF5U, used an MFJ rig for a while mobile and had great luck with it. he got a little cassette critter from radio shack that took audio in from plug and went to car stereo to jack up the available power. can you imagine having a 200 watt car stereo system, like some of the kids today have, and get some cw going on it and pull up to a street light and "CRANK IT UP". :-0 ; -)

i digress agin. anyway, he sold the MFJ and got a TenTec Corsair ?? now. Dave's picture was in QQ a few years back at the wheel of his auto or van.

there's an article in one of the latest 73 magazine issues on mobile cw. if i remember correctly, MFJ 9020 in a Hugo (a REAL QRP rig).

i remember Ed Hare doing mobile QRP cw too. forget the setup.

going back to the original point. for about \$60 and some change, depending upon the junk box, you can get going pretty cheap and get some experience to boot. NN1G in his article notes that this is not a beginners project, but i don't think it'd be too difficult. again, i'll post my feelings when i get the rig.

my \$0.02 worth again and i'm just gonna have to start charging more... :-)

72 from the ranch in Texas, dit dti

oops, darn chirp again,

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Wed Jul 28 00:16:19 1993
Subject: MFJ antenna switch?
Date: Tue, 27 Jul 1993 21:13:44 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Anyone have the 6 position, 6 rig MFJ switch or anyone recommend/not recommend it? Is there a better way to switch antennas to 3 rigs (I have 3 antennas). Just curious, especially after the latest comments on MFJ QC.

Clark
WA3JPG

From qrp-request@Think.COM Fri Jul 23 14:13:17 1993
Date: Fri, 23 Jul 93 13:12:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: MFJ-249 SWR Analyzer

Gang,

anybody with the above critter? i'm thinking of getting one while i'm in OK city tomorrow. texas towers here in dallas didn't have any in stock when i checked yesterday. is the \$199.95 price tag worth it or should i go with the 209 without the counter? i have a separate counter but would think that the whole unit would be more handy.

your ideas please.

72 de k5fo

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Jul 1 10:47:11 1993
Date: Thu, 1 Jul 93 14:39:09 GMT
From: PENC@psumeteo.psu.edu
Subject: misc power mite info.

Agree with wa3jpg comments on power mite, tho my memory probably isn't too good after all these years. My experiences with the unit were also around 1973 think 1974 to be exact. Don't recall the details of the tune up procedure but it wasn't too difficult. There was a meter on the unit to assist in this. The tuning dial was very crude and difficult to work near band edges-- that I do recall clearly! It has been 20 years since that rig was out. We did have alot of fun with it-- from Rome NY (home of the soon to be former Griffiss AFB) the club contestants were working MI, OH, NE, ID-- think the winner of that contest (each participant had 15 minutes to try to make the greatest DX contact) won with a QSO to Nevada. Sensitive radio, but not too selective. Great fun though!!

de WK2A
Department of Meteorology
Penn State University
University Park PA 16802
penc@psumeteo.psu.edu

From qrp-request@Think.COM Tue Aug 24 07:34:31 1993
Date: Tue, 24 Aug 93 07:32:31 EDT
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: Mizuho 20 mtr HT crystals

I wonder if anyone knows of an outlet for Mizuho crystals for their HF HT's?
Thanks, Greg Buhyoff KN4FR Buhyoff@vtvm1.cc.vt.edu

From qrp-request@Think.COM Tue Aug 17 07:48:12 1993
Date: Tue, 17 Aug 93 07:37:46 EDT
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: Mizuho 20 mtr HT for sale

I have a 20 meter version of the Mizuho hand held transceiver for sale. It was purchased from J-COM this last spring. In addition I have the hand mic, side-tone oscillator, the solid state 10 watt amp and crystals which cover 14.000 to 14.075 and 14.118 - 14.300. This is all packaged in a Pelican waterproof, drop-proof, foam lined case. I am interested in selling the package as a whole. All of the items are in absolutely mint condition, appearance and working. Also have the 20 meter telescopic whip antenna. Cost new for all was about \$800.00. Will ship UPS for \$450.00. Would be willing to part with the package minus the amplifier for \$350.00. I can be contacted at work at 703-231-5148 or home between 5 and 8 PM EDT at 703-951-4097

Greg Buhyoff KN4FR --- Professor of Forestry
Virginia Tech
Blacksburg, Virginia

From qrp-request@Think.COM Wed Jun 30 09:00:04 1993
Date: Wed, 30 Jun 1993 08:59:46 -0400
From: Scott Cranston <cranston@zk3.dec.com>
Subject: MM3 Low Power Parts

Can anyone recomend a source for an 80C31 and 81C55? This are replacement parts to lower the power consumption of the AEA Morese Machine.

I had only found these in an 'EASYTECH' catalog, but that company appears to be out of business.

Thanks,
Scott, KB1NW

From qrp-request@Think.COM Fri Jul 16 22:20:27 1993
Date: Fri, 16 Jul 1993 21:20:24 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: MOBILE/CW/QRP

Hi all, I have been doing mobile CW/QRP for about a year and a half. first with my MFJ 20 meter with great sucess and now with a Ten Tec 509 and a Hustler.

72

PS already have my NN1G boards and bought the components before the whole kit was offered.

From qrp-request@Think.COM Tue Aug 17 23:16:42 1993
From: jjw@seastar.org (John Welch)
Subject: More NN1G xcvr notes...
Date: Tue, 17 Aug 1993 21:47:09 -0500 (CDT)

an into a gnarly bad problem with the transmit mixer... Using the provided 22pf caps in parallel with T5 and T6 resulted in a truly *horrible* pattern on the spectrum analyzer. Instead of a nice, clean 'spike' I got kind of a ramp going up to my signal from below (and occasionally from above). On a freq counter it showed up as unstable numbers. When I could get it stable (over a small range) it had two sideband signals, often above the -30dbc limit for being legal.

I found that two 18pf caps worked better, but having an analyzer was really needed if you wanted to be FCC legal. On mine before changing the caps, the worst problem area was right around 14.050 to 14.080 - not really good for QRP use that way!

I know others have built this rig - Danny's old quite a few. Anybody else having 'interesting' times getting it working? FWIW, once it *is* working it seems to be really nice. Sounds clean, and the audio is very nice on the receiver too. Full QSK makes it even better.

72 -->jjw

--

John Welch, N9JZW

From qrp-request@Think.COM Wed Jul 7 11:03:13 1993
Date: Wed, 07 Jul 93 14:58:42 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Murata Filters

This info appeared in the new homebrew newsgroup on Internet. Rajiv is a pretty avid QRPer and homebrewer. Rajiv, do you read this mailing list?

>From: rdewan@casbah.acns.nwu.edu (Rajiv Dewan)
>Newsgroups: rec.radio.amateur.homebrew
>Subject: Re: 455khz IF filters
>Date: 7 Jul 93 13:34:12 GMT
>Organization: Northwestern University, Evanston, IL USA
>Lines: 35

>

>In <2188o5\$5n6@sousa.ako.dec.com> segrest@bobseg.enet.dec.com () writes:

>

>

>>I am interested in expanding the receive bandwidth of a commercial radio. The
>>455khz IP filter currently has a bandwidth of 12.25 khz and I would like to
>>locate or build a filter with a significantly wider bandwidth. Has anyone out
>>there had any experience with this kind of project?

>

>Here is info on Murata-Erie ceramic filters. It is from their catalog
>and was mailed to me by some one a while ago.

>

> | 6db | Att. | Stop Band Att. | Insertion | in./Output

>

> | | | | | Loss | |
> Part Number | | | | (db) min | (db)max | Impedance
> | | Band Width | Band Width | | | Ohms

> SFG | SFH | (KHZ)min. | (khz)max | SFG | SFH | SFG | SFH ||

>SFG455B SFH455B		=+ 15		-+ 35		25		35		5		6		1500
>SFG455C SFH455C		-+ 12.5		-+ 30		25		35		6		7		1500
>SFG455D SFH455D		-+ 10		-+ 25		23		35		7		8		1500
>SFG455E SFH455E		-+ 7.5		-+ 20		23		35		8		9		1500
>SFG455F SFH455F		-+ 6		-+ 17.5		23		35		9		10		2000
>SFG455G SFH455G		-+ 4.5		-+ 15		20		35		10		13		2000

>-----
>* Stop band attenuation is specified within 455 -+ 100 khz(whereas SFG455G/B:
> whitin -+ 80 khz)
>*Attenuation band width is specified at the width of SFG: 45 db. SFH: 50 db.
>
>I replaced a 455E with 455C in a 70cm band radio for 9600 baud packet use.
>These are pretty standard but do have significant part to part variations.
>
>Rajiv
>aa9ch
>Address: r-dewan@nwu.edu
>Phone: None on HF. Only CW.
> Look for aa9ch/m on bottom end of 10m-80m.
>
>

From qrp-request@Think.COM Thu Jul 1 00:39:18 1993
Date: Wed, 30 Jun 93 21:13:57 GMT
From: qrp@chalford.demon.co.uk (Martin Coburn)
Subject: MX-14S v MFJ9020

Has anyone any comments on either the MFJ-9020 (which in the UK is priced at UKP 200-00) and the MX-14S (UKP 289-00)?

The MFJ-9020 has only just appeared in the UK amateur radio press.

On the MX range only the 80m, 40m and 20m seem to be imported by anyone here. Comments on which one is 'best' would be welcome.

73 Martin

+----- Email -----+	+----- Radio -----+
qrp@chalford.demon.co.uk	g4dul@g4dul.ampr.org [44.131.5.145]
coburn@gec-mi-at.co.uk	NTS BBS network G4DUL @ GB7KHW
+=====^=====+	

From qrp-request@Think.COM Mon Jun 21 18:59:11 1993
Date: Mon, 21 Jun 93 17:58:48 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: MXM Transceiver

Gang,

Jeff Gold(AC4HF), famous QST author and member of this group, periodically pings me about the new MXM simple transceiver. i've gotten mine in a case and going finally. too many trips and not enough room for equipment on the road to finish sooner. missed qso with the famous Jim Kearman. one of these days.

i'll post final dimensions of the board, as i don't have them here at the office.

the receiver section is the SuperRX plus an addition IF stage in the front end with Cohn crystal filter for 10Mhz IF followed by 455 Khz IF, thus a dual conversion receiver. bandwidth is about 500 cycles with the filter.

i was on 40 meters early yesterday morning. i heard VE3s until about 10 am CDT. band was very long and signals pretty strong for this time i year, INMHO. lots of W1s and W2s on.

i had mxm rcvr and icom 725, yaesu ft-707, and ohr spirit rcvrs on 40 meters. the mxm was the most sensitive. it heard signals the others did not. qrn was present as tropical depression was to the east of texas yesterday morning and some rain showers in northern part of state.

the mxm receiver has more noise than the ohr spirit and about the same as the icom 725, which i consider a noisy receiver with respect to background noise levels. the yaesu ft-707 quieter but lacks some in sensitivity relative to the mxm. the yaesu ft-707 is a much better receiver than the icom 725.

pluses for mxm rcvr -

- o good sensitivity
- o good stability
- o cheap
- o good selectivity

minuses -

- o more difficult to align for the general builder, but not impossible just requires a little more time and effort on the part of the builder. i used the scope, frequency counter, and great care to align. but i do this with everything anyway.
- o a little more background noise internally
- o no RIT, but not a severe handicap to me

transmitter is vfo controlled with osc for receiver and another mixer (NE602 mixer). i've got mine tuned to 500mW out into dummy

load. with 2SC799 final PA, should be able to get 3 or more out.

qsk without relay. a real plus to me.

parts complement;

6 ics - 4 NE602s, MC3340, and LM380

6 transistors - 4 2N2222s, 2N3906, and 2SC799.

7 IF transformers

i'd say the board is about 3.5 x 4.5. i'll just have to go back and measure it.

more details to follow.

ciao,

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jun 25 13:55:03 1993
Date: Fri, 25 Jun 93 12:54:52 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: MXM transceiver

Gang,

well, the new MXM rig, called a Simple Transceiver has been on solid for days running off a 7AH 12V cell. voltage dropped 0.85V total after five days. not bad.

the receiver is quieter than i previously mentioned, probably because last sunday i had it on the 80 mtr long wire when there was a lot of qrn in the neighborhood due to thunderboomers.

at night i can hear europe when the other receivers do not. probably couldn't work 'em now, but should work like magic next fall and winter.

i think that Bruce Williams, WA6IVC, will probably start taking orders

and stuff in 30 days or so. as soon as i find out, i'll let everyone know. it will be a single bander for around \$100 to \$110, i guess. doesn't include case, but the board is 4.25" wide x 3.25" deep.

not too crowded, with 7 of the small IF cans, 5 crystals, 5 8-pin ICs, couple of transistors and final PA, and a couple of voltage regulators.

i'd guess about 65 resistors and maybe 40 or so bypass caps. couple of toroids for the output lowpass filter to be wound, but no problem. if you gotta have the exact parts count, let me know and i'll do it for real. ;-)

i was able to put the board, variable cap, variable resistor for gain control, PL-259, power, key (rca plug) and phone jack into one of my cases very nicely. i'll let you know how it receives on 40 meters at night during the test this weekend. that should be true test of front end for any receiver. the case is 6.5"w x 5.5"d x 2.5"h. plenty of room to work. i like some open spaces anyway.

after four weeks from hell and after sunday noon, i'll be about to catch up. thanks for your patience during this time.

see next posting on schematics and CW abbreviations.

72 es gl de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Aug 9 10:51:17 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: My HW-8 Goes To The Picnic
Date: Mon, 9 Aug 93 9:38:47 EST

My HW-8 Goes To The Picnic

by Jim Osburn, WD9EYB

Saturday was the annual Wabash Valley Amateur Radio Association picnic and the North American QSO contest. Thinking this would be a good opportunity to operate QRP from the park where the picnic would be held

and to have a lot of QRP QSO's and to work a lot of states, I made plans to take my HW-8 to the picnic.

I have a 15 m dipole already to go for portable operation but I haven't heard much on 15 m lately. So, I decided to build some more antenna's. 20 m would probably be hopping during the contest so I had to have an antenna for 20. But, since 20 might suffer from bad propagation, I decided to build a 40 m dipole too.

Friday night I built a 20 m dipole and a 40 m dipole. My construction wasn't fancy, just some dog bone insulators and some wire. I attached 50 feet of RG-58 coax directly to dipoles without baluns. My center insulators were some glass insulators that I purchased at a hamfest awhile back. On the ends of the coax I attached PL-259 connectors. I have little trouble soldering the PL-259's. I have a huge soldering iron with a one inch diameter tip that has no trouble at all heating up the connectors. You've got be quick though, too much heat and you have a short.

The contest started at 1800 UTC Saturday, 1 PM local time, but I didn't arrive at the park until the contest had already started. I put up my new 20 m dipole. I had some good help from one of the WVARA members, Mike, KA9OK0, in getting my antenna up. Rather than taking the time to trim the length, I used a transmatch. I don't have a SWR meter with enough sensitivity to be operated by the HW-8, so I used a noise bridge set to 50 ohms and adjusted the transmatch until I got a null.

Shortly after 1900 UTC, 2 PM local time, I was on the air. I had 8 QSO's in a little less than an hour. I worked Georgia, Massachusetts, Texas, New Mexico and Colorado. It was very easy. I would tune in a loud contest station calling CQ and I would answer him. They all came right back and gave me my report, which was name and state, no signal report, which in a contest would have been 599 anyway. I would then give my report and that would be it, into the log it goes. I didn't reveal that I was QRP, I might send them QSL cards to let them know that 1.5 Watts works well in a contest.

I did spend some time answering an Oregon station. He was fairly faint. But I couldn't get him to hear me. If I had more time I probably could have got him, but I had other picnic duties to perform and had to leave the contest after a little less than an hour. I also didn't get to put up the 40 m dipole.

Anyway, I had a lot of fun. I highly recommend taking QRP rigs to picnics.

From qrp-request@Think.COM Thu Jun 24 14:34:52 1993

Date: Thu, 24 Jun 1993 14:34:30 -0400

From: Scott Cranston <cranston@zk3.dec.com>

Subject: My Sprint Voltage problems

I earlier told about my OHR Sprint problems running from a 12v camcorder battery pack causing a problem and everything being ok when on a 13.8 volt power supply.

Well, I guess its the camcorder battery pack for some reason. While it measured 12+ volts under load from the Sprint it still caused the problems.

At Dick's (of OHR) suggestion I tried the car battery last night (12.2volts) and the Sprint worked just fine! I tried the camcorder battery again... same problem, yet I could put it right in the camera and it worked fine there???

In any event, today I got a sealed 12v battery (lead calcium) and that works ok too. So the OHR SCAF and Sprint will all run from that.

Dick also passed on two changes to make to the Sprint:

1. Change R48 from 51K to 39K ohms. This reduces the audio level and so you can use the full range of the AF gain control more easily.

The Sprint kits are now shipping with this change. I made the change on mine and it works nicely.

2. There is an error in the etch, however Dick says it does not appear to cause any problems.

As you are looking from the front of the PC board, the LEFT lead of R7 (a junction with several other components) should go to the nearest ground. Dick suggested taking a 1 inch or so piece of wire to the nearest ground point (look just on the right side of R7.)

I have not yet made this change... hopefully tonight.

The watt meter, SCAF and 40m Sprint are my first OHR kits. I'm a happy camper.... they all assembled easily, the quality is great, the service is great and they work VERY nicely and I'm looking forward to continued fun with them... and to maybe getting an OHR dual bander (Explorer ???) when its available.

Scott, KB1NW

From qrp-request@Think.COM Tue Jul 6 22:00:03 1993
Date: Tue, 6 Jul 93 18:58:23 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Need Ur Permission

Guys, I am the editor of the Northern California QRP Club Journal, The QRPP. Since we are a new club, 52 members, 2 months old, and I am desperate for QRP info to print, I thought that I would ask if anyone has any problem with my using postings made to Internet. I will give all authors full credit, and will only edit for obvious grammar and punctuation errors. If you don't want me to use your posting, let me know and I will honor your request. But if at all possible, please give your permission as others are interested in this information. Also, everyone who has a "submission" will receive a copy of the journal. The last issue, (#1), was 32 pages. Thanks and have a good week. 72, Doug

From qrp-request@Think.COM Wed Jul 28 20:20:32 1993
Date: Wed, 28 Jul 93 20:20:24 EDT
From: swamik@ele.uri.EDU (Swami Kumaresan)
Subject: Nets

Hi!

What are some net freqs and times for nets on 20m in the N.E.?
I have tried listening for TCN, but can't hear it. What does TCN stand for anyway?

Another ques: I have the current arrl code bulletin/practice sched. but can never hr them. I live in Kingston, RI (not too far from ARRL HQ) and am currently listening on an MFJ 9020 with a 50ft long wire 15 ft high. I can hr signals from all over the place (i even worked 4 countries in 1 week) but can't hear W1AW! Anyone know why?

73s es tn timer de kb1amb/aa

5 WATTS ON 20M W/ MFJ 9020
SOON A G5RV INV. VEE UP 50 FT!

Swami Kumaresan
swamik@orca.ele.uri.edu

From qrp-request@Think.COM Thu Jul 29 09:49:05 1993
Date: Thu, 29 Jul 93 13:34:45 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Nets

Swami mentions that he can't hear W1AW on 20 meters. First, even if our antenna were pointing your way, you're too far for ground wave, and too close for sky wave. You're in what's known as the "skip zone." This is not to be confused with the Twilight Zone, which is where ARRL Hq is often accused of being. See Now You're Talking!; I think we covered the skip zone there.

On 80 and 160 we use wire antennas close to the ground, for local coverage. On 40 and up we use yagis pointed NW, so you're behind the antenna anyway. You'll have to listen on 80 (3581 kHz) or 160 (1818 kHz). QST had an article on a crystal controlled 80-m receiver for copying W1AW, that used a 3579.545 kHz color burst crystal in the local oscillator (LO). I haven't tried it. Living 1/2 mile from W1AW, I pick them up on my refrigerator, electric tooth brush and the hallway light. I can always tell when I'm late for work: W1AW goes on the air at 9 AM Tues-Fri. If the hall light is pulsing, I know I have to sneak in the back door.

I don't know of any other QRP nets on 20 meters. There's a County Hunters Net on 14065 (?) during the day, I think.

Good luck, 72/73---

KR1S

From qrp-request@Think.COM Wed Jun 23 10:43:06 1993
Date: Wed, 23 Jun 93 09:59:52 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: New Panel Meters For Sale

1. SWR/Power Meters - Dress up your next project. These meters are new, clear plastic with a black band at the bottom. SWR is indicated at 1:1, 1.5:1, 2:1, 3:1 and by a red arc > 3:1. Power scales are 0 - 10, 0 - 100 and 0 - 1000. Size is 2 7/16"w x 2 5/16" h. Mounting hole required is 1 3/4". Movement is 100uA.....\$15.00 each
2. Simpson, Model 37, 0 - 1 RF amp meter. New, 3" square.....\$20.00

3. Simpson, Model 2851, +/- 20 volt 3 1/2 digital panel meter. Great addition to a power supply project. New with instructions.....\$35.00
4. Fully meter your power supply. These are very attractive high quality clear plastic meters (w/ black bottom band), 3"w x 2 1/4"H, 2" mounting hole. One is a 8 - 16 expanded scale volt meter and the other measures current from 0 - 50 amp.....\$45 for both

Replies only to email: ed@auratek.com uunet!auratek.com!ed

From qrp-request@Think.COM Wed Jul 28 14:44:30 1993
Date: Wed, 28 Jul 93 14:46:21 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Ni-Cad Notice # 1

Ni-Cad Notice # 1..

Ok, several weeks ago, I purchased a bunch (approx 3 dozen) of Govt surplus Ni-Cad battery packs. Each pack contains 20 each D-size Ni-cads. The individual cells are wired in series/parallel to produce several outputs. The packs are in a metal case and include a circuit that displays the hours of charge left, when the switch is pushed! I have disassembled three of them and found all batteries to be good.

Frankly, I am tired of tripping over them... I will let them go for \$10.00 each, plus shipping. Any takers?

Larry, KQ4BY

From qrp-request@Think.COM Mon Aug 2 12:49:17 1993
Date: Mon, 2 Aug 93 10:48:10 -0600
From: tjf@beta.lanl.gov (Tom J Farish)
Subject: Re: Ni-Cad Notice # 1

Hi...I just got back from vacation, so I don't know if this reply is too late. I'll take one pack of NiCads, if you have one left. Was that a pack of 20 D-cells?

Tom
KJ5LT

From qrp-request@Think.COM Mon Aug 16 07:46:14 1993
Date: Fri, 13 Aug 93 10:59:56 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: Ni-Cad Notice # 1

In your message of 13 Aug 1993 at 1047 EDT, you write:

> I mailed out a postal money order over a week ago. Did you receive it yet?
> If so, have you had a chance to send anything out? I'm not flaming, I'm just
> wondering if something got lost in the mail. Should I have received something
> by now?

>

> Douglas Quagliana
> dquagliana@attmail.com

>

Doug,

Stuff shipped on 8-10-93.. via UPS.. Might not have left Warner
Robins until the 11th. Give it until Monday. If you have not
received by then, please let me know.

73,

Larry

8-16-93... Retransmitted. Received bounce notices. Doug, please
confirm delivery..

Tnx,

Larry

From qrp-request@Think.COM Tue Aug 17 14:49:51 1993
Date: Tue, 17 Aug 93 12:48:17 -0600
From: tjf@beta.lanl.gov (Tom J Farish)
Subject: Re: Ni-Cad Notice # 1

Hi...Nicads arrived Monday, haven't opened them up yet, though...

Tom
KJ5LT

From qrp-request@Think.COM Fri Jun 25 12:30:05 1993
Date: Fri, 25 Jun 93 12:30:47 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: NiCad Test

Help,

I just purchased a bunch of Nicads (surplus) in battery packs. What is the quick way to determine if the batteries are good?

73,

Larry

From qrp-request@Think.COM Fri Jun 25 13:54:39 1993
Date: Fri, 25 Jun 93 12:54:23 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: NiCad Test

Gang,

Larry asked about nicads in battery packs. what you do with them depends upon so many factors. let me just take a quick stab.

say they're in lots of 6 (for total of 7.5V or so). charge them at 1/10 of their current rating for about 12 hours. if your charger won't get this current, then one or more are reverse polarized or shorted or..... after the 12 hrs, measure the voltage across each cell and see if they are all around 1.25 to 1.48 or so volts. doesn't prove anything, but it's a good sign.

in fact, at my desk i've been charging for AA nicads. they are 1.25V rated at 500mAh. this means i charge them at 50ma for 12 hrs or so. i use them in a sony walkman w10, which uses one. been listening to 30 to 50wpm random calls, sections, and signal reports to get ready for FD. i hate random code groups, which is exactly what callsigns are, but i digress....

i just this instance measured them after removing them from the charger and they measured between 1.37 and 1.41V.

now, are you gonna use them in the pack, put them together to get 12V, or use them individually? put them to work and see how fast they lose their voltage. THE SECRET is don't let a bunch of nicads in series to a load cause a bad cell to go to 0.0V and then start charging in the reverse direction. this is the thing that most kills cells. the weakest one will be charged in the reverse direction, thus measuring a negative voltage.

you can take a larger battery, say 12V and use it to charge the battery for 1/2 second or so to see if the voltage can be reversed. don't and i repeat don't do this for more than a second or so. this is and can be a dangerous procedure if the cell is shorted and heats up and builds

up gas pressure internally and

this will get you started and others will give their ideas also.
this is in the area of witchcraft and voodoo art. you'll hear more
stories than you thought possible on the subject of nicads, their use
and abuse.

i've bought surplus packs for \$0.25 to \$0.50 per cell and had good
luck. take care of them and they'll take care of you. ;-)

72 ed gl de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of
SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jun 25 15:49:23 1993
Date: Fri, 25 Jun 93 15:50:16 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: NiCad Test

In your message of 25 Jun 1993 at 1507 EDT, you write:

>
> Gang,
>
> Larry asked about nicads in battery packs. what you do with them

Thanks Chuck,

I will take this home and digest it this weekend. I guess I should
have said that I intend to disassemble the packs, find the good ones,
and assemble some new packs...

Now, I understand that I am looking for a test for each individual
cell. Your ideas will help... Time to hit the books...

Larry

From qrp-request@Think.COM Mon Aug 16 08:46:00 1993
From: jjw@seastar.org (John Welch)
Subject: NN1G 20M xcvr, drift cured.

Date: Sun, 15 Aug 1993 23:41:31 -0500 (CDT)

Many thanks to all who responded with help for the drift I reported with the 72 xcvr. Turns out the drift was not caused by a silver mica cap, but by the MPF102 in the oscillator. I changed caps, changed the coupling cap, put some heatshrink over the diode, but the drift went right away with a new MPF102 (my *only* spare). Why this is so, I dunno. Maybe heating changed the gate capacitance?

Anyhow, just got it lined up and functional. The analyzer shows 2 rather close-in spurs only 30db down, all the rest are 40+ down. The spurs seem to be from the bandpass filtering off the tx mixer. Will probably experiment some more to see if a change of capacitance helps.

I put a different tuning cap on, one I had lying around. The unit now covers from the high 13's to about 14.150MHz. Pretty stable, though the DDS still beats it. It draws about 35-40ma in rcv, and puts out 2.24 watts on xmit (will measure current later). I'll probably be dropping the output power a bit, by adding a protection diode to the power input jack.

The alignment instructions are a bit vague, but with a freq counter and spectrum analyzer I managed to get through it OK. Had to change tx mixer crystals though, to get the correct tx offset.

With just an LM386 (and the extra 10uF cap) into a decent speaker, the volume is plenty loud, even for a noisy room. It'll probably be louder when I put it in a box. (radio shack has a *nice* car speaker for around \$7-ish, with a huge magnet. very efficient, and sounds great.)

Will have Vikki let everybody know how it works once I get it in a box (still a Tech, and don't much like CW anyway but she's an extra and loves it). Thanks again. 72 -->jjw

--

John Welch, N9JZW

From qrp-request@Think.COM Wed Aug 11 16:54:07 1993

Date: Wed, 11 Aug 1993 15:54:20 -0500 (CDT)

From: "Jeff M. Gold" <JMG@tntech.edu>

Subject: NN1G Kit

Since all of you have gotten the kits from Dan's, is he going to have any available for 30 meters.. I have the boards and parts for the 20 meter, or so I think, but would also like to have the 30 meter version.

Anyone got one going yet?

72

Jeff, AC4HF

From qrp-request@Think.COM Wed Aug 11 19:20:25 1993
Date: Wed, 11 Aug 93 18:20:13 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: NN1G Kit

Gang,

i got questions from one of the members of this group, so i thought that i would respond to all.

1. the kit from Danny is complete for the boards and the parts on the boards. there were no wrong parts supplied, but the silver mica caps were too big to cosmetically mount nicely between the xtals. this has been fixed. you will not need a supply of parts unless you want to build it for 40 meters. see later.
2. the kit comes complete with two circuit boards and all the parts that mount on both. it does have the air variable and the volume control pot.
3. there are no knobs, dial indicator, power connector, case, key jack, phone jack, or rf power connector like a PL-259 or rca jack. these you have to provide.
4. the rig is sold as 20 meter version. they are working on a 30 meter version (Dave NN1G). for the 40 meter version you need:
 - a. wind a few toroids differently, but this is no problem and you have enough wire to do it, if you're not too sloppy.
 - b. you will need caps of value 47, 47, 5, 5, 47, 47, 330, 680, and 330 pF. they do not have to be NPOs.

i know that some people will probably go and bang on Danny to supply the parts, but there is a limit to what one can supply and not lose money. let's keep him in business. you could order 10 each of the 5 and 47 pF and pay \$1 per 10, thus an additional \$2 will get you most.

i don't see disc caps for 330 and 680 in the catalog, but will let you know if i find out anything.

hope this helps.

5. i don't have a comparison of this rig with the A&A, as i sold it

several months ago. i like the NN1G kit (i guess i need to call it 72 Kit, as i think that's its name in the QQ) better as it is QSK without relay. the A&A uses a relay. i'd guess the 72 is better.

the OHR Spirit is a better rig all round, but its \$200 price tag may drive some people away.

Joe, KI3B, mentioned that 40 meters was getting harder and harder to find a spot below 7.050 to do a qso. i agree. it's gonna get worse. i think that we need to start working 7.040 and up and put the squeeze on the digital guys to move up another 10KHz. i don't have an answer for this one. use it or lose it is my motto.

: -)

ok, let's stir up the activity on this qrp group again.

i'm going out to watch the 'shower'. hope that Ed and Zack get some scatter up at 10GHz and above. you guys and girls on the east coast let us know if you got a good view.

72 de k5fo dit dit
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 9 11:35:27 1993
Date: Mon, 9 Aug 93 10:35:17 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: nn1g review

Gang,

In the Jan '93 issue of The QRP Quarterly, there was an article by NN1G, Dave Benson, on Rick Littlefield's qrp rig, the same one used by MFJ in the 9020 rig. Then someone on the net came up with Danny Stevig's new address and the fact that he has a kit for \$49.95 that has the two boards and all the components on the board and the air variable cap and the variable pot. For that kind of money i had to order one. ; -)

Got it in short order and had it assembled in about six hours and in one of my cases. I wrote up some corrections that i have sent to FAR Circuits (Fred does the boards), to Dave so that he can send

and pass on suggestions to those who order his plans, and to Danny so that he could change the kit a little. Just minor things that will make sure that first time builders won't have too much difficulty.

I'm even writing a two page assembly manual just for the first time builder. I must have the urge to be an author.....

Well, i got the little rig fired up Saturday morning, since i had a 11am lunch meeting with the North Texas QRP Group.

Notes:

- o NN1G 20 meter transceiver kit from Dan's Small Parts & Kits
- o Rick Littlefield rig modified. Similar to MFJ 9020 qrp xcvr.
- o single conversion superhet receiver
- o single band rig available for 40, 30, and 20. the 30 meter version sometime soon.
- o Dan kits it with separate bags set up for several sections of the receiver and the transmitter
- o Cohn crystal filter for 10MHz IF, about 600Hz wide. I listened to pileups on 20 meters today for the NA contest no problem
- o two boards, both 1.8x3.8inches, Dave Benson says put 'em back to back.
- o 7mm IF cans
- o keep your #11 Exacto knife handy, you will need it to cut the internal capacitor out of some of the IF cans
- o you wind 8 toroids, not difficult
- o rig is QSK!!!! my favorite part
- o vfo controlled, but no RIT
- o has place for agc, but not circuit at this time. i'm looking at the mfj design to see how hard it would be.
- o 1.5W out using 2SC799, which i understand is not being made anymore, but someone on this group can give us an exact or better replacement. Dan has plenty of spare parts.
- o quality of parts in kit is nice and it comes with the 8 pin sockets for all the ICs (5 total) 3xNE602s, MC1350 IF amp, LM386 AF amp
- o no assembly instructions except for pictorial of parts layout for both boards
- o i've been playing with mine into dummy load the the keying is great. smooth, sharp, crisp, and chirp free.
- o output low pass filter is five element Chebyshev
- o kit has both boards, all parts on the boards, air variable cap, volume control with on/off switch. you'll need box, phone jack, power connector, ant connector, knobs, most of us have this stuff in junk box or we can get it a local Radio Shack.

i think somebody(s) has one on the net besides me. was that you Doug (KI6DS)? how is your's doing? got it assembled yet?

i haven't transmitted with it yet live on the air. i've gotten it aligned and listened to 20 meters for some period of time checking out the receiver. used the OHR WM-1 wattmeter to show that the transmitter is putting out 1.5W into 50ohm dummy load. using the TenTec Argosy II receiver, the 20 meter kit has a clean crisp note and NO chirp. one of the cleanest signals for a kit except for the OHR rigs and MXM.

i'm in process of checking it out with other rigs, since i only have two rigs capable of transmitting on 20. all the other monobanders are on 40.

Kit \$49.95 from Dan's Small Parts and Kits, 1935 S. 3rd W. #1, Missoula, MT 59801 and \$3.75 for shipping. I don't get a dime from Dan, just another satisfied customer.

Hope we don't put him in overload. :-) I had Oklahoma QRP group sked on Sunday, 8:30am CDT, and one of group already had one and four others were ordering. May take off like a rocket on sales. :-)

Speaking of, I ordered the CMOS Memory Keyer II. Got card from R&R, 14 day delay. Guess Doug's posting created rush of sales. All this economic power in one place.

72 de k5fo dit dit
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Aug 10 13:31:18 1993
From: jjw@precipice.chi.il.us (John Welch)
Subject: Re: nn1g review
Date: Tue, 10 Aug 1993 10:48:17 -0500 (CDT)

In your article <9308091535.AA05043@chuck.dallas.sgi.com> ["nn1g review"], you wrote:

<stuff deleted>

> i think somebody(s) has one on the net besides me. was that you
> Doug (KI6DS)? how is your's doing? got it assembled yet?

I have one - will try to get it built this week, between testing a board for Nov 73 magazine and trying to get my 8051 controller up. Will let you know how it goes - I plan to put mine on 40M. Also, I'm going to hook it up to the TW1 DDS and see just how much range I can get with this setup - I've been told that the VFO only gives about 30-50KHz on 40 as it sits.

One of our locals, WA9QM0, also has one he built from the article and the boards. He's waiting to get it aligned (soon as I can send him the instructions from Danny's kit). Will let you know how it runs, too.

```
> 72 de k5fo    dit    dit
> -----cut here-----
> Chuck Adams, K5FO - CP60
> adams@sgi.com
```

btw Chuck - I was at Fred's when he got your letter *and* Danny called, ordering another dozen boards. Fred will be drilling those IF can mounting holes a bit bigger, and Danny's sending him the parts placement drawing so it can be silkscreened. Will be *much* easier to build then.

--

John Welch, N9JZW

From qrp-request@Think.COM Fri Aug 13 00:37:04 1993
From: jjw@seastar.org (John Welch)
Subject: NN1G xcvr query?
Date: Thu, 12 Aug 1993 22:58:09 -0500 (CDT)

I've got the kit for the 72 xcvr, and started building it for 20 meters. I got the first bag of parts for the rcvr done, and hooked it up to see how well the VFO worked.

Straight out, it was at about 3.8MHz, and it was drifting fairly fast. I let it warm up for a few minutes, (no air movement, no heat sources, etc.) and it was *still* drifting upwards. On a timed run of 5 minutes, it drifted up by some 350Hz, and was *finally* slowing down after about 10 minutes of being 'on'.

Is this normal / acceptable? Seems to me, if you're running CW with a narrow filter, you'd have drifted clean away by the time you got a QSO started. Am I just being picky???

For a comparison, I hooked my DDS VFO up and did the same 5 minute run, from a cold start. Mine drifted 4Hz down. Note: Not KHz, just plain old Hertz. Granted the DDS is a good deal more complex and more costly, but I'm looking for *stability* here. Maybe not NBS quality,

but better than a total of about 3KHz in 10 minutes from a cold start. Additionally, I get the benefit of *knowing* what my frequency is from a digital readout instead of analog dials.

Any comments? 72 es 73 -->jjw N9JZW

--

John Welch, N9JZW

From qrp-request@Think.COM Fri Aug 13 09:38:10 1993
Date: Fri, 13 Aug 93 09:16:11 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: Re: NN1G xcvr query?

John

Thats quite a bit of movement (+350Hz in 5 min. @ 3.8Mhz w/ no external heating or air movement). With start up drift that high (basically due to only RF current heating components) your probably going to have a major problems when the boards are packaged in a box and you get bigger temperature variations.

Without knowing anything about the parts provided with the kit, its impossible to suggest a remedy (but I'll bet your tuned circuit has capacitors with to much negative temperature coefficient).

73

Ed W1AAZ

From qrp-request@Think.COM Tue Aug 24 13:26:53 1993
Date: Tue, 24 Aug 93 13:17:26 EDT
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: No E-mail the last few days

Did I somehow get erased from the mailing list? I have not received any mail for the last several days, including a msg I sent about outlets for crystals. Maybe there is some other problem but thought I should check. Thanks and 73

Greg Buhyoff

KN4FR

Buhyoff@vtvm1.cc.vt.edu

From qrp-request@Think.COM Tue Aug 24 16:40:10 1993
Date: Tue, 24 Aug 1993 13:40:16
From: hlester@as.arizona.edu (Howard Lester)
Subject: Re: No E-mail the last few days

>Did I somehow get erased from the mailing list? I have not received
>any mail for the last several days, including a msg I sent about
>outlets for crystals. Maybe there is some other problem but thought
>I should check. Thanks and 73
>Greg Buhyoff
>KN4FR
>Buhyoff@vtvm1.cc.vt.edu

Well, Greg, it appears I'm getting all the mail destined for you. Somehow,
several days ago, I got ON the list, and you were taken off!!

Howard KE7QJ hlester@as.arizona.edu

From qrp-request@Think.COM Fri Jul 16 11:27:32 1993
Date: Fri, 16 Jul 1993 08:31:48 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: No thanks, Deer

Twice in the past month I've come home to find the coax that connects at
the feedpoint of my inverted vee broken. At first I thought it might be
neighbor or landlord sabotage, and was miffed. But then, a clue: my
fiancee saw a deer in the backyard. Exploring further, I noticed that deer
are apparently hanging out in large numbers up there--the weeds are
flattened, and there are hoofmarks and other tell-tale signs I won't
elaborate on.

Apparently the deer can't see my black coax too well at night, and simply
trundle into it, putting two or three hundred pounds of pull on the hapless
PL-259. Guess I'll have to get it up off the ground.

Anyone else ever have animal problems with their antenna?

Wayne, N6KR

Wayne Burdick
wayne@interval.com
(415) 354-0928

Interval Research Corp.
1801-C Page Mill Road
Palo Alto, CA 94304

From parish@Think.COM Mon Jul 19 09:34:50 1993
From: Edward Parish <parish@Think.COM>
Date: Mon, 19 Jul 93 09:34:49 EDT
Subject: No thanks, Deer

Date: Fri, 16 Jul 1993 08:31:48 -0800

From: burdick@interval.com (Wayne Burdick)

Twice in the past month I've come home to find the coax that connects at the feedpoint of my inverted vee broken. At first I thought it might be neighbor or landlord sabotage, and was miffed. But then, a clue: my fiancée saw a deer in the backyard. Exploring further, I noticed that deer are apparently hanging out in large numbers up there--the weeds are flattened, and there are hoofmarks and other tell-tale signs I won't elaborate on.

Apparently the deer can't see my black coax too well at night, and simply trundle into it, putting two or three hundred pounds of pull on the hapless PL-259. Guess I'll have to get it up off the ground.

Anyone else ever have animal problems with their antenna?

Wayne, N6KR

Wayne Burdick
wayne@interval.com
(415) 354-0928

Interval Research Corp.
1801-C Page Mill Road
Palo Alto, CA 94304

I was visiting a commercial site this weekend north of Dallas that also contained an amateur repeater. The site also contained several cows. The hardline feeds came down the tower to the radio building which was only a couple of feet from the tower. Apparently the cows enjoyed walking between the tower and the building. They had trouble negotiating the hardline. One such hardline had a nice 180 degree kink in it. While I was there, I observed the cow become tangled and untangled with the hardline. Fortunately for us it was not our repeater hardline.

From qrp-request@Think.COM Thu Jul 8 15:18:40 1993
From: mvjif@mvubr.att.com
Date: Thu, 8 Jul 93 14:54 EDT
Subject: No Way HW-8 1

Hah !

Two years ago at a ham flea market, I paid \$150 for my HW-9 with P.S., WARC, speaker, and manuals. That was 2 years ago before all these confounded QRP clubs caught on. The same rig is worth at least \$250 today.

Last year an unmentioned (friend ?) picked up an HW-8 at the same ham fleamarket, in factory a box with P.S. both mint at \$20 for both.

But, have you ever won a lottery ticket ?

I was envious until I won an Alinco duoband handheld doorprize minutes later.

By the way, I have used the duobander exactly 3 times. It sits gathering dust, but used the HW-9 hundreds of times.

Moral..... You can wait forever to get a bargain, or get what you want right now, without altering your lifestyle.
Pay the going price, or less, and enjoy it now.

72, Jim - W1FMR mvjfmvubr.att.com

From qrp-request@Think.COM Fri Aug 6 21:39:49 1993
Date: Fri, 6 Aug 1993 18:44:19 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: none

Old hams never die, but their dits do finally clear up.

N6KR

Wayne Burdick	Interval Research Corp.
wayne@interval.com	1801-C Page Mill Road
(415) 354-0928	Palo Alto, CA 94304

From qrp-request@Think.COM Sun Aug 1 21:37:31 1993
Date: Sun, 1 Aug 93 18:35:44 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: NorCal QRP Club Report

The August meeting of the Northern California QRP club was a resounding success.

More than 30 members attended, several new members were signed up and it was a very enjoyable morning. Jim, WA6GER had several of his rigs there, including the OHR 30 & 40 meter rigs, plus his favorite, the "Spider" (By the way, he has 9 states worked with the Spider, and that ain't bad with crystal control! Mike Collins, KC6SEG, wasn't there (he's working in Alaska) but his "Ugly" transceiver kit was, and it is anything but "Ugly". It is a kit that Mike put

together and since I sold him the kit, he let me use it for a few days while he is in Alaska. The rig is a 40 meter transceiver and comes from an article in June 92 QST, or the 92 or 93 ARRL handbook. It is vfo controlled, direct conversion receiver, and puts out about 2 watts, with variable drive. Mike got the parts from me, ordered the boards from FAR circuits in Ohio, and put it in a beautiful aluminum cabinet. The rig turned out absolutely beautiful and everyone who was there oohed and awed over it. If you see Mike, let him know that his rig was a hit.

Jim Pepper, W6QIF, who has an article coming out in the next issue of Communications Quarterly about his 40 meter transceiver was there with the rig. It has "digital readout", and is another beautiful piece of work. Jim has agreed to let me reprint the article in QRPP, the NorCal journal, as soon as it comes out in Communications Quarterly.

Hollis Button, WF6U, didn't make it this month in person, but I had his picture there. He is on the cover of the summer issue of LowKey, the Australian QRP journal. Congrats to Hollis, and if you see him before I do, tell him that I want his autograph on my copy of LowKey.

I also would like to announce that Jeff Jones and I will be doing a session on QRP at the Pacificon Convention. Don't know for sure when it is scheduled for, but I will let you know when more details are available. Basically, Jeff and I will be displaying various pieces of QRP gear, magazines, journals, and singing the "praises" of QRP. Hope you can attend.

The second issue of QRPP, the Journal of the NorCal QRP club will be printed and mailed the 1st of September. Here is a rundown of what is coming in the next issue:

1. Whither thou goest Norcal? WA6GER writes an excellent article on the future of the club.
2. A member profile of Wayne Burdick, N6KR. Get to know more about the designer of the club project.
3. Announcement and discription of the NorCal 40, a cw transceiver that will be the first club project.
4. QRP Forever and Ever and Evermore. Operating hints and procedures from Jim, WA6GER, written in his unique style. You will enjoy it.
5. How to make simple paddles.
6. Field Day Report from W1FMR
7. Field Day Report from WT1M
8. Castle ARC's Field Day by KI6PR
9. A Great Wire Antenna, AC4HF
10. Field Day Report from AA2U
11. Dinosaur Valley DX Society FD, K5FO
12. Field Day in Extreme NE Illinois, Vicki Welch
13. Battery FD, W1FMR
14. Zuni Looper FD, KI6DS
15. Field Day, N7WIM
16. Field Day, N2JGU
17. A Superhet Transceiver for 20 Meters, by NN1G. This is a reprint of the original article that appeared in January QQ, plus 5 pages of updates and new material that has never been published. It is an excellent project, and a kit

is available for \$49.95. The article is 9 pages and includes schematics, parts layouts, pcboard layout, and tune up instructions. You will enjoy this one.

18. A review of the MXM Transceiver kit, K5FO

19. Hotel Antennas, W1FMR

20. Kent Keys, a review, AC4HF

21. How to homebrew pc boards (if anyone can do this successfully, let me know, as I want to see it done!), Gary Diana

22. Fun with Spider, another review of a rig that is quickly becoming a classic. WA3JPG

23. Oak Hills Research Spirit, a review., AC4HF

24. Oak Hills Research Sprint, a review. (NO that is not a typo, there are 2 different rigs by OHR, the Sprint and the Spirit). AC4HF

25. Modifications to improve the 40M OHR W7EL rig. Ed Pacyna

26. The State of QRP in England, by G1PJJ, our English member.

27. Tidbits, a hints and kinks type of column by the first regular columnist, Mark Cronenwett, KA7ULD.

So, there it is guys. The NorCal QRP club is doing fine. Contact Jim, WA6GER @ KM6PX if you need membership information. 72, Doug KI6DS

Guys, I am posting this as several of you have made contributions to the journal. Each of you who wrote articles will be receiving a complimentary copy of the journal. This issue is 44 pages right now, and will be sent to the printers when I return from vacation in 3 weeks. Have a good time and think of me in Toto Land (Kansas). CUL, 72, Doug

From qrp-request@Think.COM Mon Aug 2 08:46:41 1993

Date: Mon, 2 Aug 93 05:44:56 PDT

From: dh@deneb.csustan.edu (Doug Hendricks)

Subject: NorCal QRP Membership

Several have inquired. Membership to NorCal QRP club is open to all. Send your Name, Call & address to: Doug Hendricks, 862 Frank Ave., Dos Palos, CA 93620. There are no dues for the club, but the Journal, QRPP, published quarterly is \$5 per year. Posted by request. 72, Doug KI6DS

From qrp-request@Think.COM Tue Jul 20 10:43:26 1993

Date: Tue, 20 Jul 93 14:23:45 GMT

From: jkearman@arrl.org (Jim Kearman)

Subject: OHR Spirit For Sale

>From: rossi@VFL.Paramax.COM (Pete Rossi)

>Newsgroups: rec.radio.swap

>Subject: FOR SALE : OHR "QRP SPIRIT" 20 METER TRANSCEIVER

>Date: 19 Jul 93 21:46:45 GMT

>Organization: Paramax Systems Corp (A Unisys Company), Great Valley Labs, PA

>Lines: 28

>

```
>
>FOR SALE :
>
>Assembled OAK HILLS RESEARCH "QRP SPIRIT" 20 meter CW TRANSCEIVER.
>
> - Covers lower 100 KHz of 20 meters
> - Superhet receiver with crystal filter, RIT, AGC, and 2 watts audio
> - Built-in Curtis 8044ABM keyer - no relay QSK
> - 5 watts RF output
>
>This is probably one of the nicest QRP transceiver kits around.
>
>
>You can buy this radio in kit form directly from OHR for $199 and build
>it yourself in about 15-20 hours or buy this one which is fully assembled,
>tested, aligned, and ready to go (works great!) for $235 + shipping.
>
>Full documentation included.
>
>Just plug in 12 volts, antenna, keyer paddle, and headphones/speaker and
>you are on the air.
>
>=====
>Pete Rossi - WA3NNA ross@VFL.Paramax.COM
>
>Paramax Systems Corporation - a Unisys Company
>Valley Forge Engineering Center - Paoli, Pennsylvania
>=====
>
>
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From qrp-request@Think.COM Wed Jul 14 11:05:48 1993
Date: Wed, 14 Jul 93 13:54:06 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: OK ORP Club

Membership is 15 IRCs, to OK1DCP, I think.

Jim

From qrp-request@Think.COM Mon Jul 12 09:39:10 1993
Date: Mon, 12 Jul 1993 09:37:00 +0000
From: "Michael (W.M.) Babineau" <babineau@bnr.ca>
Subject: re:(old?) Ten Tec OMNI-D ?

In message "(old?) Ten Tec OMNI-D ?", you write:

> Anyone know anything about the OMNI-D from Ten Tec, and its vintage?
 > Was it the big brother to the Triton IV line? I understand that WARC
 > crystals were an option (installed in the radio I am inquiring about)
 > did it actually have band switch positions for WARC?
 >
 >
 >
 > I understand that it had a notch filter, and that it had optional
 > crystal IF filters AND separate audio filters? Anyone have a manual
 > for this radio? I wonder about the CW-ability of this radio. The
 > Triton IV was really nice for CW, and if this was an improvement,
 > it sounds really good to me.

If I can remember correctly, the OMNI-D came out in the early 80's.
 We bought one of these to replace our TS820S at VE1UNB, the club station
 at University of New Brunswick. I can't remember if it did have WARC band
 switch positions ... I think it did. As with all TEN-TEC rigs, CW is not
 added in as an afterthought. This rig was beautiful on CW. If I could
 find one in good condition I would buy it.

```

+++++
|Michael Babineau, VE3WMB      | BITNET: babineau@BNR.CA      |
|Bell Northern Research Ltd.| UUCP  : ..!uunet!bnrgate!bmerh812!babineau |
|Ottawa, ON. CANADA          |      ..!psuvax!BNR.CA.bitnet!babineau  |
+++++

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From qrp-request@Think.COM Mon Aug 2 12:43:21 1993
 Date: Mon, 02 Aug 93 12:38:14 EDT
 From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>
 Subject: re:converting CBs

> Jeff NH6IL wrote commenting about a CB at Radio Shack for \$40 and how it
 > would be neat to convert it to 10 or 12 meters. During the late seventies
 > 73 magazine had a bunch of articles on converting CBs built with a type
 > of mass produced board to 10 AM and FM as well as 10CW. I believe I also
 > saw an article on converting one to 12 meters not too long ago. The boards
 > were built by a Japanese manufacturer and were used by Kraco, HyGain and
 > Midland in several of their radios. You can get these radios for next to
 > nothing at flea markets. I've got several and usually give between
 > \$1 and \$5 for them. I've done the 10FM conversion and even worked
 > Seattle with on (5 watts mobile!)! If you guys are interested I'll post
 > more info on what models to look for and where the articles (month year)
 > are at.

> Mike KE4PC

I would be interested in the list....

thank's

From qrp-request@Think.COM Tue Jun 22 08:23:52 1993
Date: Tue, 22 Jun 1993 08:23:23 -0400
From: Scott Cranston <cranston@zk3.dec.com>
Subject: ORH Sprint & Voltage

- anything more than about 1/8 of full volume and there was a loud feedback like howl in the headphones.
 - xmit output was at very best about 1.2 watts.
- receiver sensitivity seemed low.

Thanks,
Scott
KB1NW

this from the July issue of Worldradio:

At least five hams will ride together on a bicycle tour from Hood River to Crater Lake National Park, Oregon, during the week of 11 July to 17 July.

Guy Hamblen, AA7QZ, will be operating 20M QRP on approximately 14.06 MHz along with Bill Paul, KD6JUI. Paul will also operate 40M QRP on approx. 7.04 MHz. They will be operating from campgrounds along the way after approximately 4:30pm each evening, 0020 UTC. (sic) The other hams will be using 2M HTs. Non-hams will join them for this trip along the Pacific Crest Bicycle Trail through the Cascade Mountains.

-----end of article-----

FYI de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Tue Aug 24 16:42:06 1993
Date: Tue, 24 Aug 93 13:22:48 PST
From: Gary_Thorburn_at_Notes-Gate@sceng.UB.com
Subject: Page 109 ...

I read but seldom contribute to the QRP list, but ...

I got my Sept QST yesterday, and my 10-yr son Ben (KB1AIH) has already sent in his postcard hoping for that ICOM 707. Flags are his "thing", he's written a Visual Basic (Windows) program released as shareware that displays flags of 120+ countries. He rattled off all ten right away.

He's trying to dream up enhancements for this program of his, to send an enhanced version to people who register their copies. Right now he's working on a scrolling info box - population, etc.

It just occurred to me that maybe some of you DX fans might have some ideas of some good sources for info on "rare" countries. Right now he's working from the "World Almanac" and a CD-rom encyclopedia. He wants to distribute his product to schools, so he needs general interest info,

(not just the callsigns of "rare" hams!). Any ideas? Online sources?
Consulates with BBS?

Gary Thorburn KB1AIF thorburn@sceng.ub.com

---- fin -----

From qrp-request@Think.COM Mon Aug 23 15:59:58 1993
Date: Mon, 23 Aug 93 15:57:23 EDT
From: Frank.Milos@East.Sun.COM (Frank Milos - Sun USOPS CSU Manufacturing
Engineering)
Subject: PC A/W format

The only format that I am aware of that is used here is
Postscript...

Therefore, cast my vote for .ps

Thanks es 72

Frank N01E

From qrp-request@Think.COM Mon Aug 23 15:02:00 1993
Date: Mon, 23 Aug 93 15:00:43 -0400
From: okas_rp%ncsd.dnet@gte.com
Subject: PC artwork format vote

Hello All,

Well let me cast my vote for the Postscript format. Although we run
the gammut of devices here, they all seem to be compatible with this format.
I have yet to mask and etch a board in this manner, but I believe what
we're looking at is a postive version of the artwork, not the negative.

On-line artwork, a fantastic concept!

72 de Bob N3MBY

From qrp-request@Think.COM Mon Jun 21 14:11:16 1993
From: mvjfm@mvubr.att.com
Date: Mon, 21 Jun 93 14:10 EDT
Subject: PC boards

Gang,

Re; Designing Printed Circuit Boards;

I understand that FAR offers an outstanding artwork service, providing a PC board layout and artwork from your parts and lay-out sketch, and that the service is inexpensive and the quality and pc board is excellent.

72, Jim - W1FMR mvjfm@mvubr.att.com

From qrp-request@Think.COM Tue Jun 22 07:09:14 1993
Date: Tue, 22 Jun 93 07:08:04 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: pc boards

I think that gary was refering to copies of pc artwork that have been scanned , and could be ftped , then printed out on dyna-art paper or the tech-2000 film. All you would have to do to get an artwork is ftp the appropriate scanned artwork, then print it onto one of the above mentioned things. Then just dump it in the etch! Gary and I have done this with a few boards, but realize that not everybody has access to a scanner to scan the artwork initially. Also, Postscript is a great format for printing to a lasar printer, but not a great one for manipulating in a easy format. There isn't much use to me to learn PC layout, but easy copying of artwork printed in magazines and books is fun and can be done. Having a ftp-able site with various artworks available would be great. Also... Please note that to use the iron on process, it would be best to store mirror images of the artwork. It would be nice for instance if the ARRL had a ftp site that I could anon log into that I could download mirror imaged copper artwork. I could have pc boards that evening!

73 all Brad WB8YGG@WB2VPH bmitchel@kodak.com

From qrp-request@Think.COM Tue Jun 22 08:05:37 1993
From: mvjfm@mvubr.att.com
Date: Tue, 22 Jun 93 08:05 EDT
Subject: pc boards

What did Brad say ?

I think my fpted is anon without a scanner. My ftp-able site is filled with dyna-art paper. I do know what tech-2000 film is though.

i think my brain is too old for this stuff.... Hi

72, Jim - W1FMR mvjfm@mvubr.att.com

From qrp-request@Think.COM Tue Jun 22 10:01:51 1993
Date: Tue, 22 Jun 93 10:00:31 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: pc boards

Ok, I admit, I wasn't very clear (at all).

lets go thru this one step at a time.

1. you see a project in 73 magazine you want to build
2. you need a board
3. you buy the board.... not!!!!
4. You ftp to some workstation on the network, and down load the artwork,
5. You then print the artwork onto a dyna-art paper or Tech-200 film with a laser printer, throw it in the etch, and you are done.

That's the final goal anyway, that Gary was eluding to.

The assumption is that you have access to a laser printer, (or good copier) you have access to the network, other than mail. ie. ftp.
Also the other assumption is that the artwork is a mirror image! This may not be obvious but it's true.

73 Brad WB8YGG

From qrp-request@Think.COM Wed Jun 23 08:45:58 1993
Date: Tue, 22 Jun 93 21:08:39 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: pc boards

I have been asked the question, why bother with making circuit boards?

Especially when FAR is cheap etc.

Here is a good example... The Color Burst Tx , Well I found the artwork,

and I had been so inclined I could have been on the air with my Color Burst transmitter by now... Hows that? For us impatient, and cheap folks , or those people that haven't had the experience of pc board making it might be worth it to say I even made the board... Now I'm getting in deep... 73 all and happy qrp fd ..._._ WB8YGG Brad

From qrp-request@Think.COM Wed Jul 7 18:03:09 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 7 Jul 93 15:00:11 PDT
Subject: PD shareware ham software for MSDOS

I just got a T1000 cheap to run all that wonderful DOS ham software I keep hearing about (I'm a Mac-head in all my other machines so the previous statement should be taken with a :-). One intention is to use it portable.

Are there any collections of stuff about the net that I can use on this machine (slow 8088 + CGA). Looking for SuperMorse and other morse trainers, contesting programs, loggers or QSL databases, propagation, sat trackers, packet (both PMP and usig a real TNC) and so on.

Any hints, tips or suggestions on must have software (even if it is commerical) is appreciated.

Thanks,
Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From qrp-request@Think.COM Wed Jul 7 09:23:18 1993
From: mvjfm@mvubr.att.com
Date: Wed, 7 Jul 93 08:04 EDT
Subject: Permission

Doug asked permission to include internet articles in the NOR CAL QRP club newsletter.

I ask the same for QRP-NE. Our newsletter is called "72" and we are based in the New England area. We have 180 members and are 18 months old. Internet is the best source of information and communication that I have ever seen. Congratulations and thanks.....

72, Jim - W1FMR QRP-NE mvjf@mvubr.att.com

From bruce@Think.COM Wed Jul 7 11:52:30 1993
From: Bruce Walker <bruce@Think.COM>
Date: Wed, 7 Jul 93 11:52:29 EDT
Subject: Permission to include articles

I just wanted to respond to the two who requested permission to include articles posted to the QRP mailing list in their QRP club newsletters.

First of all, I have no problem if you do it, but I don't feel the permission is mine to give. While it is very nice for you to let everyone know you are interested in doing this, I don't want you to assume that lack of objection constitutes consent.

I don't know exactly what copyright law is on quasi-publications like this mailing list, or Usenet news groups...it has been discussed often, but I don't know of any case law. I go under the assumption that the author of a message or article is the copyright holder, and by submitting it to the list or group, he or she has given permission for it to be published in that forum.

However, I also go under the assumption that the author retains other publication rights. I know that it has been a hot topic in at least one newsgroup which I frequent (rec.aviation): a certain national aviation magazine included articles published in the newsgroup without permission, and the authors were sometimes quite perturbed, even if credited...what you write in one forum may not be what you would write for a different set of people in a different medium.

So, if you want to pick up text published here, please contact the author(s) individually to secure their permission for each thing you want to publish. As long as you do that, the "list management" has no objection. Sound OK?

--bruce WT1M

From qrp-request@Think.COM Thu Aug 12 12:13:30 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Perseid Meteors
Date: Thu, 12 Aug 93 10:00:56 EST

I saw four.
I watched from 0240 UTC until 0310 UTC.
(That's 9:40 PM until 10:10 PM EST, not EDT or CDT, this part of
Indiana is EST all year.)
I saw three big bright orange ones that left glowing tails.
I saw one white one that didn't leave a tail.
All were moving NNE to SSW.

I'm amazed that I saw any.
I came home from my sisters discouraged that conditions were cloudy,
hazy and light polluted, and it was lightning to the east.
I put the car in the garage and looked up on my way into the house.
I had to position a tree between me and my neighbors dusk to dawn light,
and my house between me and the street light out front, and the
garage between me and the other neighbors house light.
I could see only four stars, the cross in the constellation Cygnus I think.
I was thinking it's silly for me to be out here looking and that I should
go inside when a big bright orange one that left a glowing trail went
whizzing by.
It came from the NNE and went to the SSW, definitely a Perseid.
I about fell over with surprise.
I stayed out until the clouds started rolling in and saw three more,
all moving NNE to SSW, definitely Perseids.
I found one other ham on one the local repeaters who was also out looking
and seeing about what I saw.
I feel lucky.

Jim, WD9EYB

From qrp-request@Think.COM Wed Jul 21 16:54:20 1993
Date: Wed, 21 Jul 93 15:54:07 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: phase 2

i've gotten one response to the qsl and photo scan project.
should i abandon it? inquiring minds wanna know.....

72 dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Aug 3 11:50:13 1993
Date: Tue, 3 Aug 93 10:49:59 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Phase 2 - schematic update

Gang,

sorry for the previous posting that had no text. kinda a depressing event. spent some time typing it in and must have inserted some control character that blew away the text. bummer!

again, but this time i'm creating a file and then posting the file. :-)

i've not been taking orders for the phase 1 schematics. i will again, but not now. i have to get together more than 15 requests to get the costs down to a reasonable level -- you know, setup, etc.

what i'm calling phase 2 has now started up. contributions welcomed.

i received nice letter from Steve, KA1LM, and schematic for the TenTec PM2/PM2A. one page schematic and the manual, which 20 years ago when the rigs were simple, of about 4 pages at 8.5x11". thanks Steve.

here is what i have so far for phase 2 -----

1. OHR Sprint
2. OHR Spirit
3. OHR WM-1
4. OHR Capacitor Audio Filter (thanks to Dick, KE8KL, for permission)
5. TenTec PM2/PM2A
6. TenTec 525D
7. NN1G updates to '72' 20 Meter XCVR from Jan '93 QQ

contributions for the next group is now being accepted by yours truly.

some have volunteered back articles from QST, 73, HR (Ham Radio), and others. let me know in advance before you send them so as to avoid duplication and a lot of work..... don't know how far back to go. remember, FCC regs and requirements on spectral purity have changed and some of the old rigs won't meet or exceed today's requirements.

historically, i would guess we shouldn't cut them out as it would be nice to see the 'good ole days' and the way things were.

remember, we're looking at \$10 for 200 pages (100 sheets front and back). we can go higher, i don't mind but then again i don't know what your budget is like.

feedback appreciated.....

for the DX crowd.

1. explain to the US crowd what the SW Broadcast interference is like in Europe and other places.
2. how is propagation south of the equator and QRN levels this time of year
3. do you see much US manufactured equipment (like TenTec)?
4. where do you typically obtain parts, kits, etc.

inquiring minds want to know.

also, as a side note. this author is a native Texan. don't blame Americans for my lack of knowledge of the English language. i am who i am.....

back to net control. Bruce, you still there? how is the list doing and you might want to update the group as to how many on the list now. ratio of US to DX? are we generating too much traffic? again, our thanks to Thinking Machines (did everyone see them in Jurassic Park?) and their contribution to a system mailer for this group. good show!!

everybody take care,

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Jul 22 17:38:06 1993
Date: Thu, 22 Jul 93 16:37:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: photos et.al.

gang,

we're talking weeks here, not today. so don't panic yet. :-)

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60

adams@sgi.com

From qrp-request@Think.COM Fri Aug 6 15:27:34 1993
Date: Fri, 6 Aug 93 14:27:19 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: pileup on 30 meters

last night there was one heck of a pileup on 10.111 MHz.

who was that? i never heard any call, but then again i didn't
stay around that long. should i go back tonight and listen
to what could be 10 times as worse?

inquiring minds wanna know.

-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Jul 16 10:43:19 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Pogo Stick
Date: Fri, 16 Jul 93 9:32:52 EST

At the Indianapolis Hamfest last weekend, a vendor in the flea market
was selling a telescoping, fiberglass, portable mast called the Pogo Stick.
The mast extends to about 25 feet, is lightweight, and collapses to about
4.5 feet in length.
To demonstrate, the vendor had what looked like a one element quad
mounted on the mast.
I was very interested, a couple Pogo Sticks might be ideal for QRP
portable operation, until I saw the price, about \$100.00.
An extension to 30 feet was extra.
If the price had been closer to a buck a foot, I might have bought one or two.

From qrp-request@Think.COM Fri Jul 16 12:23:04 1993
Date: Fri, 16 Jul 93 12:24:08 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: Pogo Stick

In your message of 16 Jul 1993 at 1218 EDT, you write:

> At the Indianapolis Hamfest last weekend, a vendor in the flea market
> was selling a telescoping, fiberglass, portable mast called the Pogo Stick.
> The mast extends to about 25 feet, is lightweight, and collapses to about
> 4.5 feet in length.

Do you happen to remember the vendor's name? I am mildly curious
about this gadget.

73,

Larry KQ4BY

From qrp-request@Think.COM Tue Jun 22 13:53:10 1993
Date: Tue, 22 Jun 93 13:43:07 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: Portable Antenna for Motel Room

I have used a 20m dipole combined with a telescoping mast made out of PVC pipe and hose clamps with great success in various motels. I fed this antenna with 300ohm twinlead but coax would work if 20m is your interest. The mast was made of seven or eight sections of PVC pipe which was cut and slotted like aluminum beam elements are. The sections could then be joined together with hose clamps. A small C-clamp and wood block to retain the end of the mast were employed for mounting to whatever railing or wall that was conveniently located. All sections were sized such that they fit easily inside my suitcase when disassembled. Since they telescope inside each other, three sections only results in one pole in your suitcase. The antenna was set up as a vertical dipole from balconies at hotels in Israel and at Dayton. The lower half of the antenna was allowed to dangle from the end of the mast which was protruding out from the balcony like a flagpole. The upper half was strung vertically as far as possible and the remainder was then routed in whatever direction was convenient. With this antenna from Israel over 500 QSO's were made including 2 way QRP QSO's with the USA and Japan. The rig used was an Argonaut 509. At Dayton this antenna with the same rig worked 13 countries including several QSO's with KH3 as all the interested QRPers in the suite took turns working the KH3 pileup. For this antenna to work well one should request a room on a high floor when checking in. The antenna packs easily as 33ft of wire is small and not much length of feed line is required for this application.

Randy Rand AA2U
rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Mon Jun 28 13:01:13 1993
Date: Mon, 28 Jun 93 12:01:01 -0500

From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: post FD

oops. forgot to mention. got on 14.060 after the test. worked K9RS on first cq. he told me i had terrible chirp, this due to low battery voltage, so i went qrt. i did try guys.

we had one change on the battery during the test. probably why we had a loss in qso count. we had period where we were not working everything we heard and found out it was the battery down to 11V. Icom just doesn't like it.

72

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jul 16 15:29:11 1993
Date: Fri, 16 Jul 93 14:28:51 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: postage

Jim Michael pointed out to me, and i do appreciate it, that for \$3.10 i can ship out 2 lbs for 2nd day priority, so that's the way they'll go when i get 'em. such a deal.

again, thanks Jim

all this brain power in one group.....

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Thu Jul 1 14:13:59 1993

From: mvjif@mvubr.att.com
Date: Thu, 1 Jul 93 13:41 EDT
Subject: Power Mite

QRO Gang

While prices of HW-8 and HW-7 have gone through the roof, Power Mites have not (yet).

12,000 were manufactured and there should be lot around. I have a complete collection PM-1 through PM-3A.

You would not be happy with the receiver after using an HW-8, but operation is similar to a HW-7.

Mechanically it is not as rugged as an HW-7. There were about 6 for sale at Dayton, and the prices varied from \$35 to about \$75, depending on condition.

They are fun to use, and take some getting used to. They draw hardly any current and a couple of lantern cells should last for a summer of operating. Look around flea markets for a pair of high impedance headphones or/and an old 9V. battery powered MFJ audio filter to go with them. That should provide you with an entire "Period Classic QRP Station". The audio circuit was designed for high impedance.

Ten Tec still fixes them. However, they are probably the only rig around that can be trouble shot with a copy of "Solid State Design", and fixed with a volt/ohmmeter and regular soldering iron.

The collectors are catching on fast with these rigs.

Happy Hunting.....

72, Jim - W1FMR mvjif@mvubr.att.com

From qrp-request@Think.COM Tue Jul 27 11:22:23 1993

Date: Tue, 27 Jul 93 15:17:47 GMT
From: PENC@psumeteo.psu.edu
Subject: power mite schematics

Would like to see the Ten Tec Power Mite schematics added to the nice little qrp circuit booklet Chuck put together so nicely.

Anyone else interested?

Anyone have these and would be willing to supply a copy to Chuck for inclusion?

The nice series of mail generated on these classic radios was very interesting and would like to get a copy of the schematics....

Chew on this.....

de wk2a/2 Rich dah dah

From qrp-request@Think.COM Thu Jul 1 09:53:37 1993
Date: Thu, 1 Jul 93 13:49:06 GMT
From: PENC@psumeteo.psu.edu
Subject: power mites

About the TenTec Power Mites:

Haven't seen these around at any hamfests for quite some time; I guess the last time I saw one was around the mid to late 80's-- and the condition wasn't very good on the opne I did see.

I recall these were a bit of fun to work with: at the Rome (NY) ARC hamfest one was used in an annual qrp contest at the event This radio was perhaps the one which got my interest in amateur radio in the first place!

Perhaps Chuck can add the schematics to his recipe book of qrp schematics. I'd like to see these included!

de wk2a/3
penc@psumeteo.psu.edu

From qrp-request@Think.COM Wed Aug 11 10:07:11 1993
Date: Wed, 11 Aug 93 14:01:36 GMT
From: PENC@psumeteo.psu.edu
Subject: power mites

Thanks to WD6CZI and KA1LM for supporting inclusion of power mite schematics in the qrp schematic bible being kindly and ably assembled by Chuck. This rig was my first exposure to portable operation; and sparked *my* interest in the hobby. (Sorry I cannot direct mail to individuals since we don't subscribe to name server here).

Anyone familiar with these and know which models were produced and what their corresponding features were(are)?

de WK2A Rich

From qrp-request@Think.COM Fri Jul 23 10:40:21 1993
Date: Fri, 23 Jul 93 13:54:44 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Practical Wireless

If you'd like to subscribe to this British amateur magazine, it will cost you \$45/yr.

PW Publishing Ltd
Freepost, Arrowsmith Court
Station Approach, Broadstone
Dorset BH18 8PW
ENGLAND

You can add a subscription to Short Wave Magazine, for SWLs, for a total of \$75.

When you start reading either of these magazines you will quickly discover why the US is a great place to live. The VAT and interest rates in England are unbelievable. The VAT, for example, is 17.5%! Last time I saw credit card interest rates given, they were about 20%. Of course, they're going to hit 21% in Connecticut in a few months, now that the Politburo has removed the cap on installment interest rates.

You might also be interested in joining RSGB and receiving Radio Communication. If anyone's interested I'll hunt up the info.

72, KR1S

From qrp-request@Think.COM Fri Jul 23 12:42:15 1993
From: laurahal@microsoft.com
Subject: RE: Practical Wireless
Date: Fri, 23 Jul 93 09:22:00 PDT

Jim Kearman writes:

> You might also be interested in joining RSGB
> and receiving Radio Communication. If anyone's

> interested I'll hunt up the info.

Here's the information:

Radio Society of Great Britain
Lambda House
Cranbourne Road
Potter's Bar EN6 3JE
England

phone: +44 707 659015 (local time is UTC+1 in the summer)

They sent me a prospective members package a while ago that included a sample copy of Radio Communication (a.k.a. RadComm), a sample of their beginner's magazine (D.I.Y. Radio?), and information about the society (books, QSL Bureau, etc.). Overseas memberships are about (pounds)35, more if your really must have RadComm by airmail. I'll check the exact figures and post them over the weekend.

73 from Vancouver,
laura VE7LDH

From qrp-request@Think.COM Thu Jul 22 16:29:48 1993
From: dquagliana@attmail.com (os2user@vmdoug.utsd.att.com)
Date: 22 Jul 93 20:16:17 GMT
Subject: Practical Wireless magazine July 93 issue

I heard second-hand that the July issue of Practical Wireless is either devoted to QRP or has several QRP articles in it. (I think Practical Wireless is the correct title. It is an amateur radio magazine published in England.) Can anyone elaborate on what articles are contained in the July issue ? Anything good ? Reviews ? Contruction articles ?

Douglas Quagliana KA2UPW
dquagliana@attmail.com

From qrp-request@Think.COM Thu Jul 22 18:19:54 1993
Date: Thu, 22 Jul 93 21:44:54 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Practical Wireless magazine July 93 issue

Doug Quagliana, KA1UPW, mentions the July 1993 issue of Practical Wireless. YES! The theme of the issue is QRP!

Here are the highlights:

Pg Article

- 20 Review of Santec MX-14S 14 MHz SSB/CW QRP handheld transceiver, by Clive Hardy, G4SLU.

- 21 The Tiny Tim 3.5 MHz SSB Transceiver, Part 1. Tim Walford, G3PCJ describes his delightfully simple QRP SSB transceiver. (Only receiver schematic in this issue, but should be buildable with US parts.)

- 25 My QRP DXpedition to Monaco. Peter Barville, G3XJS tells the story of a successful holiday in France, with a day trip to Monaco thrown in for good measure.

- 28 The World of QRP. Leighton Smart, GW0LBI invites you to join in and explore the world of QRP.

- 30 The Queensbury 7 MHz CW Transceiver. Steve Ortmayer, G4RAW and Clive Hardy, G4SLU, invite you to build a simple CW transceiver and have fun on the air. (SBL-1 based direct-conversion receiver, xtal-controlled transmitter.)

- 36 The Challenge of QRP. Frank Lee, G3YCC says that there's an exciting challenge waiting for you, when you work with QRP amateur radio.

- 40 The Bourbon QRP 3.5 MHz Transmitter Part 1. Bill Mooney, G3VZU introduces his 3.5 MHz double sideband suppressed carrier and CW transmitter, which uses surface mount techniques. (Usually, the Brits explain how they came up with the names they like to give to their QRP rigs. I didn't spot any clues in this article. Maybe he just likes Wild Turkey?)

- 46 Antenna Workshop. Peter Dodd, G3LD0 explains how you can maximise your QRP transmissions, by paying proper attention to your antenna. (Get it high, good ground, comparison of horizontal to vertical.)

You might be able to find a single copy at a BIG city magazine stand. Nothing really unique in this issue, so I wouldn't go to great lengths or expense to secure a copy.

72, KR1S

--

jkearman@arrl.org

From qrp-request@Think.COM Tue Aug 24 10:25:01 1993
Date: Tue, 24 Aug 1993 08:21:02 EDT
From: "Fred Cady ieefc@msu.oscs.montana.edu" <fred_c@ece.ee.montana.edu>
Subject: Printer-File Capture Utility Want

Does anybody know of a utility (for dos machines) that will capture the printer output from a program and put it into a file? I can use ARCHIE to find it but don't know what it might be called.

Thanks and 73, Fred KE7X

From qrp-request@Think.COM Mon Jul 12 15:37:03 1993
Date: Mon, 12 Jul 93 14:07:45 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: Problems w/ Argonauts

Regarding Drift

One problem with the 505 and 509 is that on bands other than 75/20M the VFO gets doubled or tripled in order to supply the correct injection frequencies to the mixer. Therefore drift doubles and/or triples too (this is also why the dial scales from band to band don't track very well). On the 515, TenTec changed to a premixing VFO for injection which is much better.

AGC Problem

Its just a poorly designed circuit (even their engineers will agree). The audio derived voltage is used to reduce the supply voltage of the RF and or IF amplifiers (which are MOSFets). Also having a RF amplifier in front of the MC1496 mixer is poor. During 40M night, 20M open and most contests the Argo's fall apart (poor DR, IMD etc.).

IF Selectivity

The 515 had an 8 pole optional filter available (stock was a 4 pole lattice design). Be careful with putting in other units (center frequency is not exactly 9.000000MHz and Z matching).

73

Ed W1AAZ

From qrp-request@Think.COM Fri Jul 16 20:40:29 1993
Date: Fri, 16 Jul 93 14:40:23 HST
From: jeffrey@math.hawaii.edu
Subject: PROJECT 1: 40M QRP XMTR

Hi Gang,

Here is the first of many very SIMPLE QRP transmitters. I make no claims to their performance! In the next few weeks I'll give you xmtrs for 80, 40, 20, and 2 meters; most requiring 3 or less transistors. The circuits come from 2 out-of-print ham projects books (c. 1968) so I will assume there will be no copyright problems.

Project 1 is a simple 40 meter xmtr; it should only take 15 minutes to build it (if you've got the parts). I wasn't able to draw the symbol for each part on this terminal, so I put the part number in it's place. Hope you don't mind... Note that the case of Q1 should be grounded. Here's the text for this project, taken from "101 EASY HAM RADIO PROJECTS" by Robert M. Brown, k2zsq/w9hbf and Tom Kneital, k2aes/wb2aai:

"Want to really shake up your next contact? Just tell him you are using this one-transistor CW rig! Most Novices and other hams shy away from these little gems thinking they are hopelessly underpowered. Not so! More than 50 contacts - all located over 75 miles distant - have been logged with this rig connected to the backyard longwire!

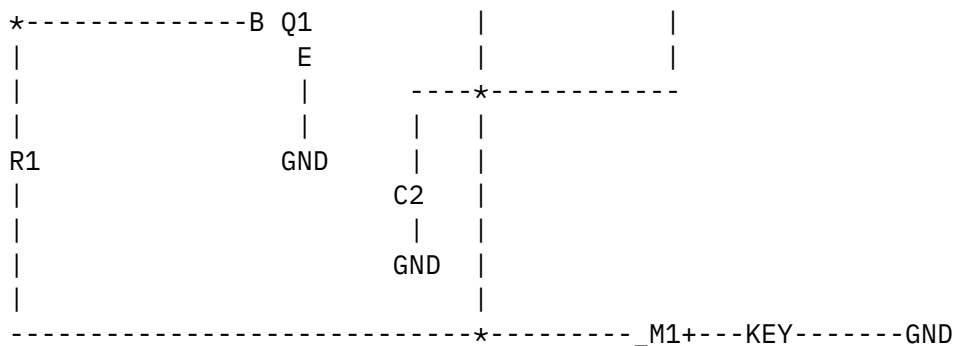
"Construction is quite simple and, in fact, there is not much to say about it. Reason: there isn't very little that can go wrong!

"L1 should be adjusted for maximum deflection on an FSM as the key is depressed. Crystal should be a fundamental frequency type for 40-meter operation."

Parts list:

C1 68 pF capacitor
C2 .015 uF capacitor
C3 10 pF capacitor
L1 25 turns of No. 26 enameled wire wound on a 3/8 in. slug-tuned form (National XR-91 or equiv.)
M1 4.5 volt battery
M2 40-meter fundamental freq. crystal
Q1 GE-9 transistor
R1 91K resistor

```
-----M2-----*-----*-----*-----C3-----ANT.
|               |               |               |
|               |               |               |
|               C               C1              L1
```

That's it! Note that GND = ground (and note the polarity of M1).
 For Q1, I've labelled its leads B = base, C = collector, E = emitter.
 * indicates a junction of 3 or more leads.
 Remember, no flames if it doesn't work; I'm just the messenger!
 Project 2 will be an 80M VFO QRP xmtr; stay tuned. (Oh yes, there
 IS a 2M xmtr on the way).

Jeff, NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

From qrp-request@Think.COM Thu Jul 22 18:38:02 1993
 Date: Thu, 22 Jul 93 12:37:44 HST
 From: jeffrey@math.hawaii.edu
 Subject: PROJECT 2: QRP 20M CW TRANSMITTER

Hi Gang,

Here's the second QRP project taken from 101 EASY HAM RADIO PROJECTS,
 by Robert Brown and Tom Kneitel; again, since the book is out of print,
 I assume there will be no copyright problems...

This project is a simple 20 meter CW xmtr with output about 100 mw (?).
 Here are the authors' comments:

"If you have always wanted to try low-power on 20 meters, here is an
 excellent method for joining the growing ranks of flea-power addicts -
 and doing it inexpensively. This circuit is capable of world-wide QSO's,
 given the right conditions and assuming QRM is not present.

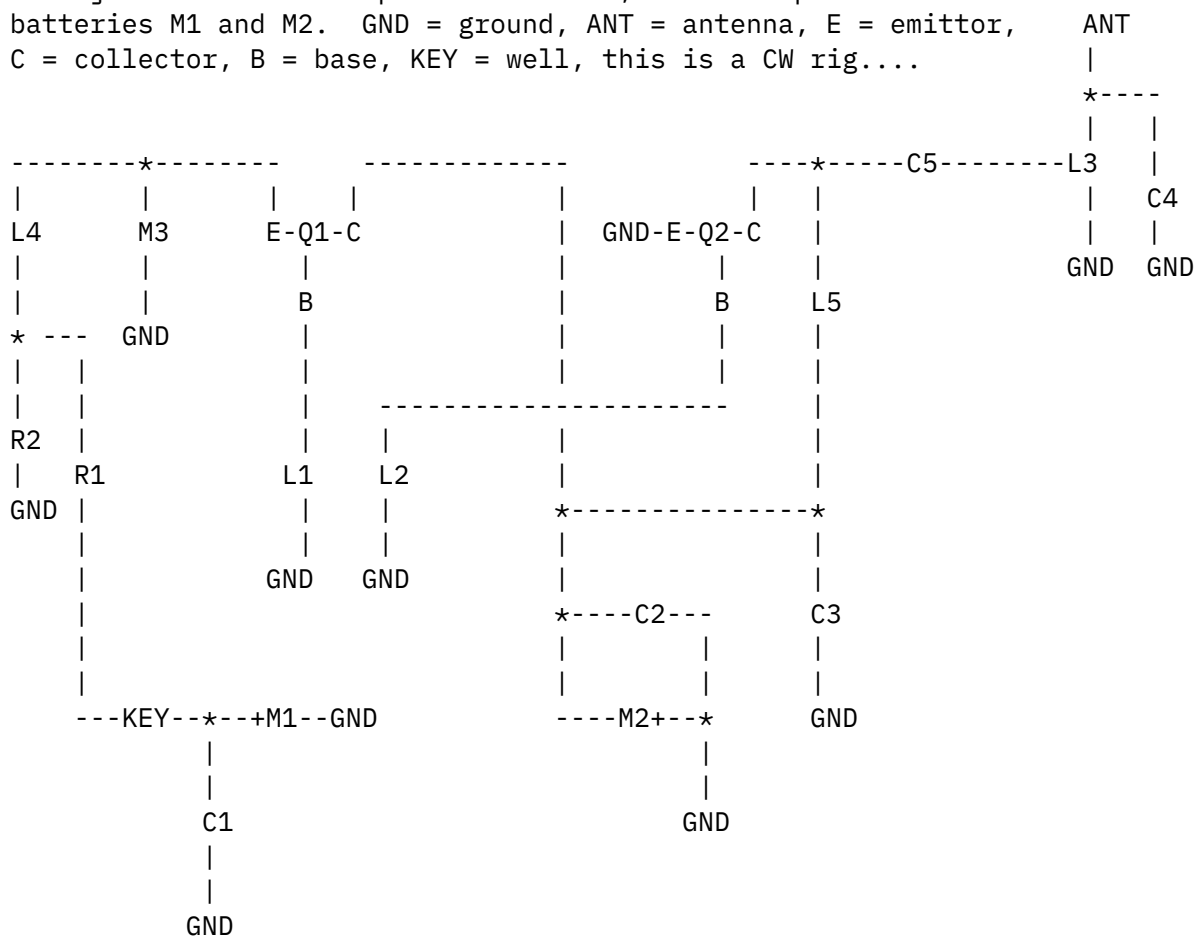
"The transmitter uses a pair of GE-1 universal replacement transistors
 in a unique circuit configuration a great more sophisticated than you
 would normally expect for an under-one-watt rig. Crystal can be a
 fundamental 14-mHz type.

"L1 should be adjusted for sure-fire oscillation every time the
 key is depressed. C4 is simply adjusted for maximum output on the FSM."

PARTS LIST:

C1, C2 .02 uF capacitors
C3, C5 .002 uF capacitors
C4 51 pF variable capacitor
L1 38 turns of No. 22 enameled wire on a 1/2 in. diameter slug-tuned form
L2 8 turns of No. 22 enameled wire wound over cold end of L1
L3 Coil, 17 turns of Air Dux 616T (or equiv.) tapped 5 1/2 turns from cold end
L4, L5 2.5 mH rf choke (National R-100 or equiv.)
M1 1.5 volt dry cell
M2 6 volt battery
M3 14 mHz crystal
Q1, Q2 GE-1 transistors
R1 180 ohm resistor
R2 1.1 megohm resistor

As before, rather than trying to 'draw' the symbol for each component, I've just inserted the part number. Oh, note the polarities of the batteries M1 and M2. GND = ground, ANT = antenna, E = emitter, C = collector, B = base, KEY = well, this is a CW rig....



Note that the collector of Q1 'jumps' over the hot end of L2; this is the only jump. * = a junction of 3 or more leads.

.... .- ...-- ..- -. !

Jeff, NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

From qrp-request@Think.COM Fri Jul 30 20:46:01 1993
Date: Fri, 30 Jul 93 14:45:33 HST
From: jeffrey@math.hawaii.edu
Subject: Project 3: 80M xmtr with VFO

Hi Gang:

An opinion from someone at our law school is not to worry about any copyright violations; email me for full details.

This week we have an 80 meter 1/10 watt output xmtr with a VFO! Not too many of us still have a drawer full of xtals (gave all my away when I sold my DX-60).

Construction is pretty straightforward. C5 is the VFO-frequency-adjust control, while C4 acts as a preset calibrator. Output is governed by setting of C9.

It is most important to shield the VFO section entirely (including Q1); this will prevent hand capacitance from pulling you off frequency.

PARTS LIST

C1	.002 uF cap
C2	500 pF cap
C3	1000 pF cap
C4	15 pF variable cap
C5	51 pF variable cap
C6	100 pF cap
C7, C8	.015 uF cap
C9	76 pF variable cap
C10	.0015 uF cap
L1	57 turns of Air Dux 832 (or equiv.)
L2	35 turns of B&W 3016 (or equiv.)
L3, L4	2.5 mH rf choke (National R-100 or equiv.)
M1	0-15 dc milliammeter

Notes: * indicates a junction of 3 leads. (indicates a jump. B = base,

C = collector, E = emitter. KEY = manual telegraph key. GND = ground.

Coming attractions: 1 transistor 160 meter xmtr; 3 transistor 2 meter xmtr; 15 meter xmtr; other goodies, too!

.... -.-. -.-. -.-.

Jeff NH6IL . .

Jeffrey Herman, University of Hawaii Mathematics, jherman@hawaii.edu

From qrp-request@Think.COM Mon Aug 2 13:10:25 1993

Date: Mon, 02 Aug 93 12:56:07 EDT

From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>

Subject: Project 3: 80M xmtr with VFO

>

>

>

> Hi Gang:

> An opinion from someone at our law school is not to worry about
> any copyright violations; email me for full details.

> This week we have an 80 meter 1/10 watt output xmtr with a VFO!
> Not too many of us still have a drawer full of xtals (gave all my
> away when I sold my DX-60).

> Construction is pretty straightforward. C5 is the VFO-frequency-
> adjust control, while C4 acts as a preset calibrator. Output is
> governed by setting of C9.

> It is most important to shield the VFO section entirely (including
> Q1); this will prevent hand capacitance from pulling you off frequency.

>

> PARTS LIST

>

> C1 .002 uF cap

> C2 500 pF cap

> C3 1000 pF cap

> C4 15 pF variable cap

> C5 51 pF variable cap

> C6 100 pF cap

> C7, C8 .015 uF cap

> C9 76 pF variable cap

> C10 .0015 uF cap

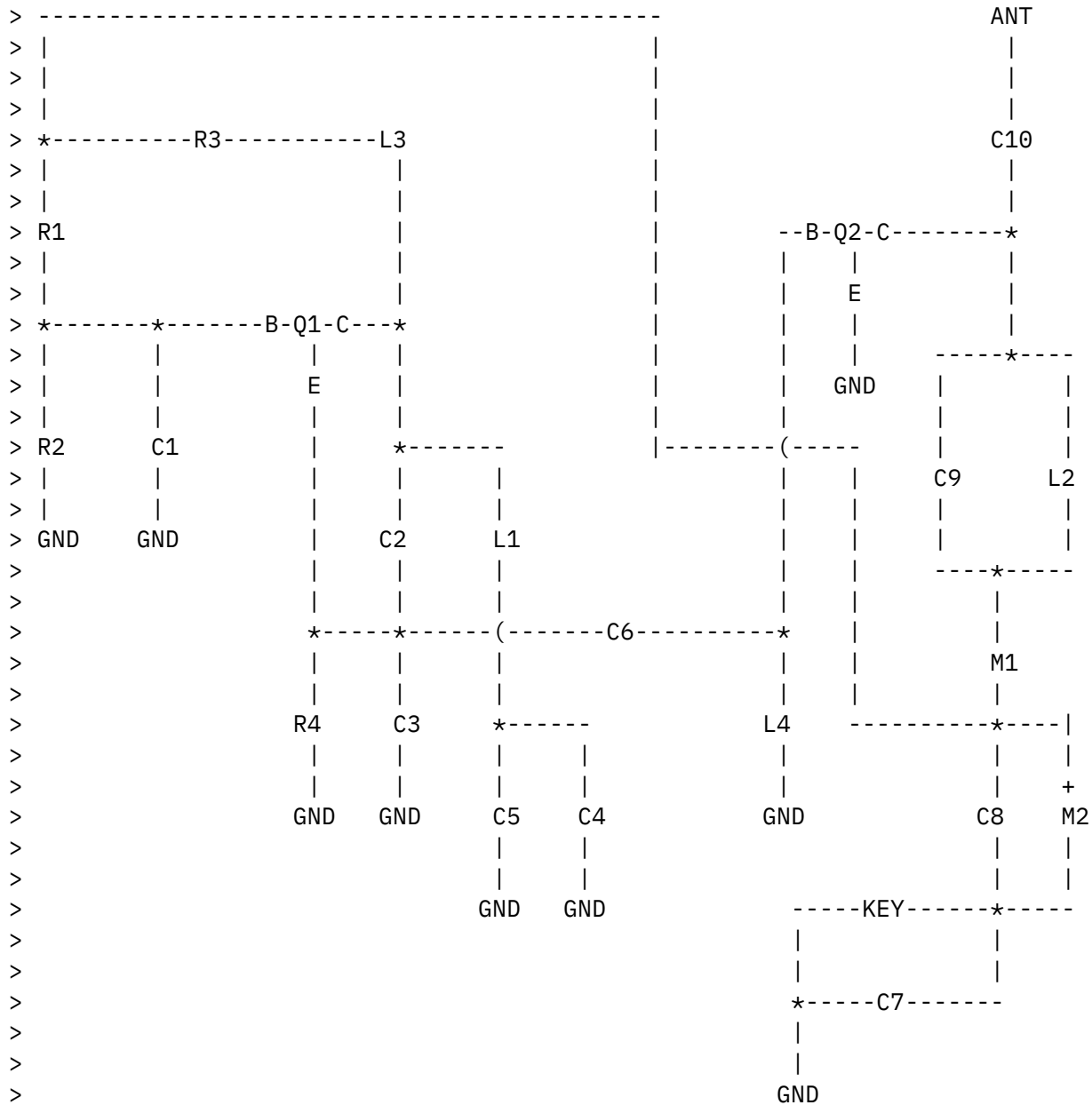
> L1 57 turns of Air Dux 832 (or equiv.)

> L2 35 turns of B&W 3016 (or equiv.)

> L3, L4 2.5 mH rf choke (National R-100 or equiv.)

> M1 0-15 dc milliammeter

> M2 12 volt battery
 > Q1 2N744 transistor
 > Q2 2N852 transistor
 > R1 120K resistor
 > R2 100K resistor
 > R3 2.2K resistor
 > R4 2.4K resistor



> Notes: * indicates a junction of 3 leads. (indicates a jump. B = base,

```

> C = collector, E = emitter. KEY = manual telegraph key. GND = ground.
>
> Coming attractions: 1 transistor 160 meter xmtr; 3 transistor 2 meter xmtr;
> 15 meter xmtr; other goodies, too!
>
> ....  ...-  ..-  ...-  -.
>
> Jeff NH6IL  . .
>
> Jeffrey Herman, University of Hawaii Mathematics, jherman@hawaii.edu
>
>

```

If I remember correctly you said that these were out of an old book. In the august QST they said to be careful of old articles because the circuits may not meet current FCC signal purity requirements. See august QST for the full details. I don't know if this circuit meet's the standards or not It's just something to consider.

```

*****
* Rodney Clayton  KA3BHY          Howard County Public Schools *
*                               Ellicott City, MD  USA          *
* Systems Programmer          ABRC@CATCC.BITNET                *
*****

```

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From qrp-request@Think.COM  Fri Aug 20 20:35:02 1993
Date: Fri, 20 Aug 93 14:34:51 HST
From: jeffrey@math.hawaii.edu
Subject: Project 4: 160M phone rig

```

Gang:

Here's the next project: a 160M phone xmtr; sorry it's AM but these are OLD project books! Just the simplicity of it should make it fun to build and play with. It's VFO tuned by adjusting the slug of L1. In fact you can use this on 75 meters (and there IS some AM activity on 75) just by changing the final L/C network accordingly. Note that as various antennas are tried, the frequency will change markedly, necessitating readjustment of the L1 slug. The microphone should be a low-impedance crystal type.

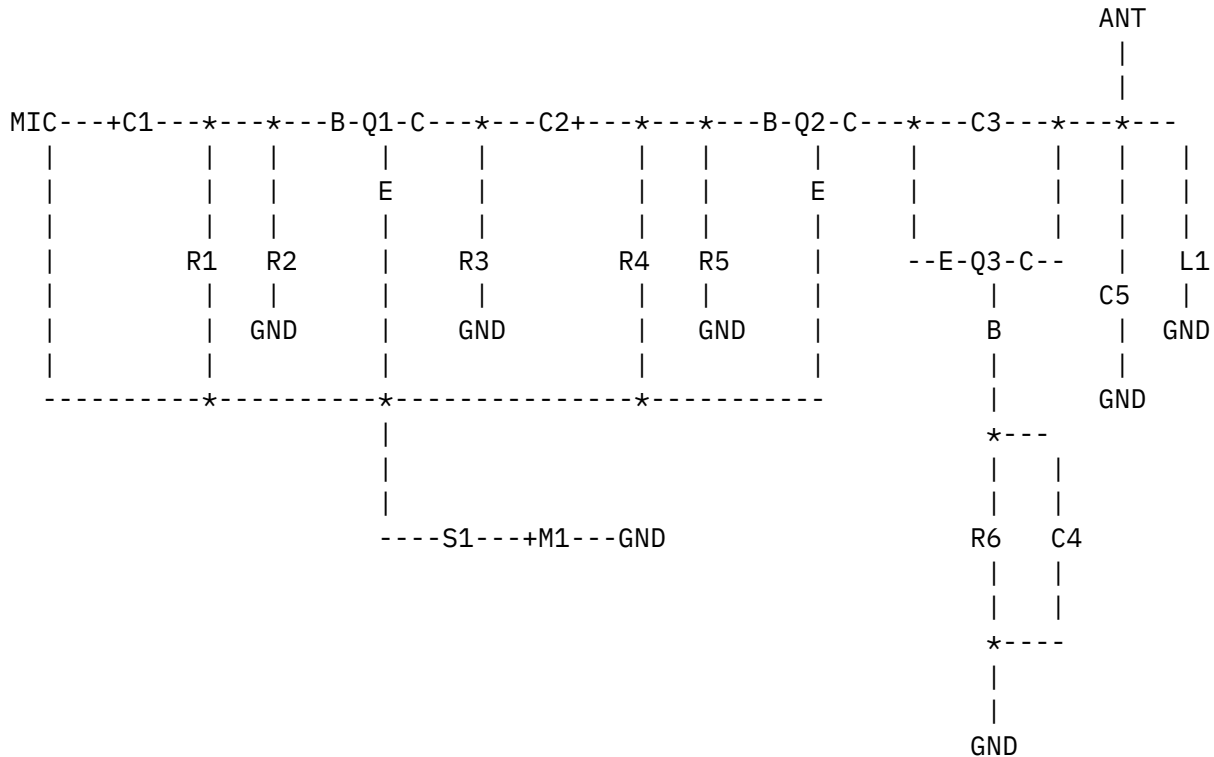
Parts list

```

C1, C2    4 uF, 15 VDC electrolytic caps
C3        100 pF
C4        .015 uF
C5        180 pF
L1        Vari-loopstick (WRL 10M162 or equiv.)
M1        9 volt battery

```

Q1, Q2, Q3 GE-2 transistors
 R1 10K resistor
 R2 750K
 R3, R4 5.1K
 R5 200K
 R6 75K
 S1 SPST switch



Since the xmit frequency can change as you change antennas, I bet a strong wind blowing against a longwire antenna will cause a little 'swing' in frequency...

This circuit was taken from Brown and Kneital's 101 EASY HAM RADIO PROJECTS.

Next up is a one-transistor 15M CW xmtr; stay tuned.

Jeff, NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@hawaii.edu

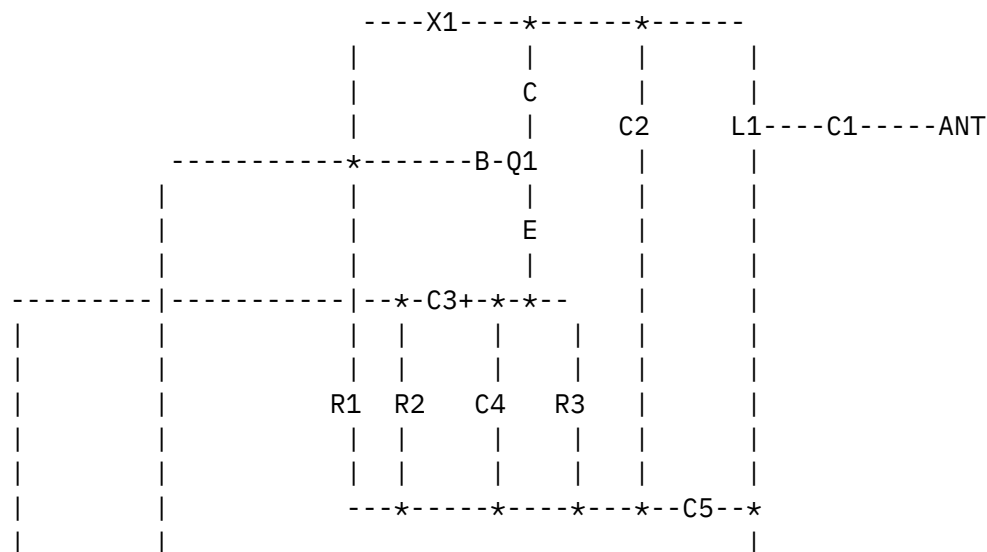
From qrp-request@Think.COM Fri Aug 27 05:38:06 1993
 Date: Thu, 26 Aug 93 23:37:57 HST
 From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
 Subject: Project 5: 15 meter QRP CW xmtr

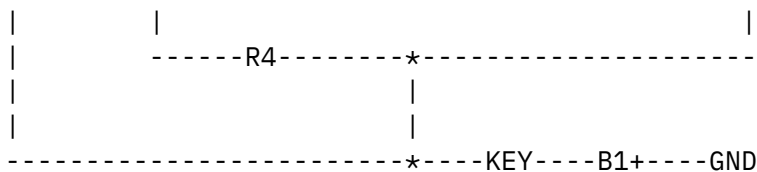
Here's a one transistor flea-power CW xmtr for 15 meters (I'll provide a 2 transistor 1 watt xmtr as the next project for those of you who want to run high power on 15M...)

To tune-up the xmtr, just peak C2 for maximum signal on your receiver's S meter.

Parts list:

Q1 2N373 transistor
 C1,5 4700 pF capacitor
 C2 3-30 pF trimmer
 C3 30 mF
 C4 1000 pF
 R1 10K resistor
 R2,3 510 ohm
 R4 50K
 B1 9 VDC battery
 L1 17 turns B&W 3007, tapped 8 turns from C5 end
 X1 21 mHz fundamental 3rd overtone crystal





Note the battery's polarity. Recall that * indicates a junction of 3 or more wires; there are 2 jumps - one from R4 and the other from R1. Sorry, only straight keys can be used in this xmtr... Credit goes to Bert Simon, W2UUN, and his book, 104 HAM RADIO PROJECTS.

Jeff NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

From qrp-request@Think.COM Wed Jul 7 14:04:10 1993
 Date: Wed, 07 Jul 93 17:55:37 GMT
 From: jkearman@arrl.org (Jim Kearman)
 Subject: Publication

Bruce, WT1M says: "[C]ontact the author(s) individually to secure their permission for each thing you want to publish."

I'm sure everyone here has deduced where I am employed. Yes, please ask me before you pick up anything of mine for publication.

There may be a problem with a commercial magazine reprinting uncopyrighted newsletter articles without notice. It's happened in the past. If anything I wrote here appeared in a commercial ham magazine, the company's Usenet access would be in jeopardy.

If you ask, I'll probably say yes and ask you to include a copyright notice, unless I was having a bad day and unleashed a flame or something!

72, Jim, KR1S

--
 jkearman@arrl.org

From qrp-request@Think.COM Wed Jul 14 10:39:35 1993

Date: Wed, 14 Jul 93 09:39:11 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: Publishing Correspondence from QRP mail list

Publishing correspondence from this mail list without authorization should not be done. In addition the the professional standards of conduct noted by Jim, KR1S, I think this practice would inhibit on-going participation.

Contributions are often made with some context (i.e. comments to a specific question or discussion). Without this thread, a specific posting may not be understood, complete or accurate.

Contributions may be based on material already submitted for publication, contain proprietary information etc., so we should not put our contributors in an embarrassing situation.

A contributor may not wish (for whatever reason) want to support a particular organization/publication.

73

Ed W1AAZ

From qrp-request@Think.COM Tue Jul 13 08:35:30 1993
From: mvjfm@mvubr.att.com
Date: Tue, 13 Jul 93 08:17 EDT
Subject: QQ

7/13

I spoke to Paula Franke... Pres of ARCI, last week.
She is having work and medical problems, however
the QRP Quarterly has gone to the printers.

I have not rec. the OK-QRP, or the G-QRP newsletters.

The QRP-NE newsletter is being worked on as we speak.

July and August is vacation time and difficult to keep
focused on the hobby.....

72, Jim - W1FMR mvjfm@mvubr.att.com

From qrp-request@Think.COM Wed Jul 14 08:40:28 1993
From: mvjfm@mvubr.att.com

Date: Wed, 14 Jul 93 08:37 EDT
Subject: RE: QQ

Kevin,
To answer your question on how to join the OK-QRP club,
I don't know how much a membership in the OK-QRP club costs
as I exchange ARCI memberships with OK1DZD.

From the newsletter, which has some English translation,
membership and general correspondence go to;

OK1CZ, Petr Doudera
U1.baterie 1
16200 Praha 6
Czech Republic

I met Petr at Dayton this year, and he is a great guy.
Jim, KR1S hosted him for a few days in CT.

I will send a copy of this correspondence to KR1S, in
case he knows how much a subscription costs and how to
send funds.

72, Jim - W1FMR mvjff@mvubr.att.com

From qrp-request@Think.COM Wed Jun 30 15:11:39 1993
From: mvjff@mvubr.att.com
Date: Wed, 30 Jun 93 15:10 EDT
Subject: QRP +

Has anyone used the QRP+ rig from Index Labs.

10 -160m Scaf filter, Digital Display, 5 W etc....

How do you like it ?

Response or comments on use ?

72, Jim - W1FMR mvjff@mvubr.att.com

From qrp-request@Think.COM Thu Jul 1 11:48:33 1993
Date: Thu, 1 Jul 93 08:40:26 PDT
From: ed@imp.pnl.gov
Subject: Re: QRP +

Jim, W1FMR asks about Index Labs QRP +. I talked to Index just yesterday. They have a production run of 100 units scheduled to be finished in late July. About 70 units are committed. For Field Day some of the folks took early prototype rigs up in mountains and ran for about 20 hours on Gel-Cells, mostly 40 and 20 mtrs cw (ssb was hard...). Largest problem seemed to be having the rig dragged off the table when someone got tangled up in the coax -- definitely not a boatanchor! Hope this helps...

72, Ed - N7YQR

```
~~~~~  
~ Edward W. Kleckner K6-84   Internet:   ew_kleckner@pnl.gov ~  
~ Battelle Northwest                               n7yqr@amsat.org ~  
~ Battelle Blvd.           Packet:   N7YQR@WA7EAQ.WA.USA.NA ~  
~ Richland, Washington     Voice:     (509) 376-8425 ~  
~ 99352-0999                FAX:      376-5368 ~  
~~~~~
```

From qrp-request@Think.COM Tue Jul 27 20:11:06 1993
Date: Tue, 27 Jul 93 19:10:52 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: QRP ARCI info

Gang,

here is the official word from the QRP Quarterly dated July 1993

QRP ARCI History, Purpose and Policies

The QRP ARCI was founded in 1961 by the late Harry Blomquist, K6JSS, with the aim of reducing QRM on the air, by members voluntarily limiting their power to 100 watts or less at all times. Due to increasing interest in true low power operation, and through the leadership of then-president Tom Davis, K8IF, the Club voted in the late 1970's to redefine its purpose in that direction, and adopted the generally accepted definition of QRP as 5 watts output CW and 10 watts PEP SSB.

The voluntary 100 watt power limit was later abolished; members may run any legal amount of power necessary at any time, for any purpose, although the 5 watt limit should be observed when claiming to be operating QRP. Club awards and activities are geared to the 5 watt and under level. The QRP ARCI does not advocate the reduction of the legal power limits of amateurs in any country, and serves only to provide a forum for those who enjoy the thrills and challenges of building and operating with low power equipment. The QRP ARCI is a member of

the World QRP Federation and maintains ties with various other QRP organizations.

The QRP ARCI publishes the QRP Quarterly in January, April, July and October. All contributions are welcome and should be directed to the appropriate editor or columnist. (No payment is made for material published. Unless expressly requested, manuscripts, drawings, pictures and diskettes will not be returned.) Except for those items with a copyright indication, material may be reprinted elsewhere if proper credit is given to the author and the QRP Quarterly. The products, projects, features and fantasies described are intended solely for the enjoyment of our readers. No testing has been done unless explicitly stated, and no warranties are intended nor implied. The QRP ARCI and QRP Quarterly in no way warrant any commercial or private offers herein unless expressly stated.

To promote on the air QRP operation, the QRP ARCI promotes the use of designated QRP calling frequencies, regular QRP nets, and a program of QRP operating awards and contests. Information on these is found in the QRP Quarterly from time to time. Detailed information on the awards program is available from the Awards Chairman. To join the QRP ARCI or renew your subscription to the QRP Quarterly, see the form inside the back cover. (See names below - Ed)

EOT

the above typed in by Chuck Adams, K5F0, and hopefully i got it all right.

if interested,

USA new member \$12, renewal \$10

DX new member 7 Pounds, renewal 6 Pounds (no British Pound symbol in ASCII)

send Check or MO made out to QRP-ARCI to

Mike Kilgore KG5F
2046 Ash Hill Road
Carrollton, TX 75007

for DX send Check or MO payable to G-QRP to

Dick Pascoe, G0BPS
Crete Road East
Folkestone, Kent CT18 7EG
England

with check or MO send your name, call, mailing address.

i am a member of QRP ARCI and am not being paid or otherwise compensated for new members or old. just providing info, cuz some have asked for it.

i noticed on the new issue, there is a cover price of \$3. inside the QQ there is a on page 9 a note that the QRP Quarterly is now available at

Maryland Radio Center, 8576 Laureldale Drive, Laurel, Maryland. this would be of interest to those within driving distance of same. i don't know that there is a push on to get the QQ to many commercial locations to be sold. this is new to me and time will tell.

the above copy is from QQ July 1993 and is for the enjoyment and for the distribution of info on the QRP ARCI club. there are number of new hams that are just learning what many of us take for granted. it's our job to give them information and allow them to make their own decisions. i'm personally not forcing my views on anyone but i will give them away (my views). ;-)

NOTES:

QRP - transmitting activities using low power as defined above
QRP ARCI - QRP Amateur Radio Club, International
QRP Quarterly - the quarterly publication of QRP ARCI
- abbreviated QQ

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 2 18:15:27 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Mon, 2 Aug 93 12:06:21 PDT
Subject: QRP calling freqs

Chuck posted this a while back -- MI QRP June 1993 pg 11 fills in the gaps on 17 and 12m. I also add suggestion at VHF of using the National calling frequencies as this is where you'll find the most of the weak signal guys listening.

here is the list, as i have it for the internationally recognized QRP calling freqs +/- QRM.....

BAND	CW	SSB
160M	1.810MHz	1.910MHz
	1.843MHz	(Europe)
80	3.560	3.985
	3.710	(US Novice)
	3.579	(Colorburst TXes)
40	7.040	7.285
	7.030<-->7.060	(Europe)

	7.110		(US Novice)
30	10.106	no/no	;-)
20	14.060	14.285	
17	18.080	18.130	
15	21.060	21.385	
	21.110		(US Novice)
12	24.910	24.950	
10	28.060	28.885	
	28.110	28.385	(Novice CW)
		28.360	(suggested in SPRAT -- N7WIM)
6	50.060	50.885	(this may be 50.300 now because of R/C airplanes)
	50.125	50.125	National calling frequency -- everyone listens here
2	144.060	144.285	
	144.200	144.200	National calling frequency -- everyone listens here

Originally composed by Chuck Adams, K5FO @ 70+ wpm cw, adams@sgi.com
 80m, 17, 12m, 10m added by Kevin Purcell, N7WIM/G*UDP @ 5 wpm cw (on a
 good day :-)

From qrp-request@Think.COM Tue Aug 3 10:14:14 1993
 Date: Tue, 03 Aug 93 13:09:30 GMT
 From: jkearman@arrl.org (Jim Kearman)
 Subject: QRP Calling Freqs

The problems with WARC band calling frequencies continue.
 Kevin was polite enough not to mention it, but I got
 chastised for not doing enough research to list them
 in "Low Profile Amateur Radio," which was reviewed in
 the latest Five Watter.

Referring to Chuck's earlier posting on the subject,
 you'll see that the Europeans use different calling
 frequencies. On 30 meters, the West Coast is using
 10.123 MHz, which is unusable in Europe. Thus, I
 decided to leave 'em out. Besides, sooner or later
 you have to jump in and work the QRO guys, which
 means leaving the nest and entering the battlefield.
 Most of the time, it's easier to work the QRO stations
 anyway. They have stronger signals and usually have
 better antennas, so they can hear me better! :+}

KR1S

--
 jkearman@arrl.org

"I never shot a man who didn't need it." --Clayton Allison

From qrp-request@Think.COM Tue Jul 6 14:09:52 1993
Date: Tue, 6 Jul 93 14:09:46 EST
From: jennings@abb.com
Subject: QRP Clubs

Hello QRPers,

Does anybody know if there is a qrp
club in the Rochester, NY area?

TNX es 73

Tom Jennings KV2X
jennings@abb.com

From qrp-request@Think.COM Mon Jul 19 15:38:00 1993
Date: Mon, 19 Jul 93 12:37:48 PDT
From: jdchesko@ux5.lbl.gov (james chesko)
Subject: QRP e-mail

Please forward information on QRP kits and projects.

Thanks in advance,

james KD6QEH

From bruce@Think.COM Fri Aug 27 09:23:04 1993
From: Bruce Walker <bruce@Think.COM>
Date: Fri, 27 Aug 93 09:23:03 EDT
Subject: QRP List administration problems

QRP gang,

Sorry to those of you who have been trying to get added or removed from this list for the past several weeks. Because of some procedural changes for maintaining mailing lists at this site, many of my changes to the distribution list have been periodically overwritten. So, some of you reappeared on the list after you were taken off, and some of you disappeared for a while after being added, and some people's who had address changes had their addresses just change back and forth!

Anyway, sorry for the problems; they were my fault. I now have the list reconstructed as best I can from the information I have. If you receive this and had asked to be removed: sorry, please remind me, and I will take you off once and for all! If you want to be on the list and aren't receiving this :-)...well, I hope you think to ask again.

From qrp-request@Think.COM Fri Jul 30 12:57:59 1993

Date: Fri, 30 Jul 93 16:52:13 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: QRP Nets, QSO Parties

QRP QSO Party exchanges are usually given in the contest announcements in QST and CQ.

There is no set exchange for the First Sunday event--it's just a chance to meet other QRPers. If you have club numbers from QRP clubs, you'll probably exchange numbers with the people you work. Otherwise, just say "HI."

72, KR1S
--
jkearman@arrl.org

"I never shot a man who didn't need it." --Clayton Allison

From qrp-request@Think.COM Wed Jul 28 13:52:59 1993
Date: Wed, 28 Jul 1993 13:52:33 +0500
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: QRP on satellites

>Is there such a thing as working satalites with QRP homebrew equipment?
>If so which satalites? Can it be done with reasonable antennas(small
>managable)? Thank's Rod

Rod,

It's pretty routine to work the low orbit satellites with moderately low power outputs, say 25 watts or less. The main problem would be contention on the digital and FM repeater satellites like A021 or the pacsats.

On Oscar 13, which has got much higher path loss, I've heard people claiming to run 1 watt or less, heard the ZRO tests when the power to the antenna was well below a watt on the higher levels (Z8), and have worked stations on CW with 5-10 watts, and heard my own return at 1 watt. You need high gain antennas for Oscar 13, but they are physically small. My helix cost about \$40, is 10 feet long, and has about 15 db of gain.

For the HF satellite like RS12/13, I imagine you can get away with pretty low power too, but I haven't tried it.

If you can make a couple of watts on 435 mhz, and want to whip up a quagi or something for an antenna, I'd say go for it. A couple of us have tried working through A013 using our 440 HT's and doing cw with the ptt switch. Ugly, but you *can* hear it. (short the mic plug to keep the FM out - you

don't want to take up 30 khz of transponder space, even qrp)

Hope that was useful

72 de Kevin, WB2EMS (fkf1@cornell.edu)

From qrp-request@Think.COM Wed Jul 7 07:02:19 1993
Date: Wed, 7 Jul 93 07:02:05 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: qrp PBBS

Hi everybody, hope you all had a great holiday (some still having I'm sure),

I just thought that I would let everyone know that there is a pbbs here in the West Central NY area that specializes in QRP. It's run by WB2QAP, and you can connect to it via the CANDGA node. Connect to WB2QAP-1 once on the CANDGA node. If you happen to be a couple hops away it might be worth checking into.

P.S. are there any other QRP PBBSs ??

73 Brad WB8YGG

From qrp-request@Think.COM Tue Jun 22 12:07:47 1993
Date: Tue, 22 Jun 93 12:03:35 EST
From: Brad Staff <B.Staff@mi04p.zds.com>
Subject: QRP wattmeter?

I am now the proud owner of an Argonaut 505! Now I need a QRP wattmeter. What is available in the ready-made or kit category? I am aware of the OHR unit.

72,

```
+=====+
| Brad Staff                616-982-5791 (tel)      |
| Zenith Data Systems       616-982-5997 (fax)      |
| Hilltop Road              b.staff@zds.com        |
| St. Joseph, MI 49085      aa8if                 |
+=====+
```

From qrp-request@Think.COM Wed Jul 28 08:57:37 1993
Date: Wed, 28 Jul 93 07:57:25 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: QRPp

sorry about using this esoteric abbreviation. during the early days of QRP, when it was 50 watts, if you ran under 5 watts or so you were QRPP or QRPP. i guess now we have to use QRPP to mean under 0.5 watts. that would be one order of magnitude, i.e. a factor of 10. i just made this up, the 0.5 value. it's open for discussion and someone put it to a vote in the QQ.

in Oklahoma at the swapfest last weekend i picked up a lapel button. this button has 72 in larger font. in smaller font it has "Wishing You Good QRP", which is the meaning of the 72. QRPers use 72 and 73 when signing with a worked station who is also QRP.

keep up the good work guys.

Clark, i like my Argosy II just fine. i have sensitive ears and i find that it does have TOO MUCH audio. i can't move the audio gain much off of zero before it's too loud in my old Yaesu FT-77 earphones.

i've worked five countries with 2 watts. in the low power position with the power level at max i only get 2 watts out instead of the 5 it's supposed to do. this is measured on the Argosy's meter as 2 watts and on the OHR WM-1 wattmeter also. i cranked the output up to 10 watts (sorry guys) to see if there might be a problem and there doesn't seem to be. i didn't work anyone with this high an output, it was into a dummy load. so i guess that makes it alright (the high power).

i have to work on the AGC, it thumps too much for me and the delay is a little slow. at 30 wpm it can hear between words but not letters.

ok gang, i've said enuff this week. i'll be quiet. ;-)

72 de k5fo dit dit
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Wed Jul 28 11:55:16 1993
Date: Wed, 28 Jul 1993 08:59:40 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: re: QRPP

My understanding of "QRPP" has always been that it refers to an output of 1 watt or less. This could be folk lore--I can't point to any written references. In support of a 1-watt figure, I would point out that this is around the typical output from the 2N3053/2N4427/2N3866/2SC799 class of QRP

PA circuits that dominate in HF QRP projects now and have since the late 1960's. It seems to be a power level that needs a label of some kind. :)

Of course, "QRPP" is also the name of the journal of the new NorCal (Northern California) QRP Club. Perhaps we should ask the editor (Doug, KI6DS) what his definition is!

72,
Wayne, N6KR

Wayne Burdick
wayne@interval.com
(415) 354-0928

Interval Research Corp.
1801-C Page Mill Road
Palo Alto, CA 94304

From qrp-request@Think.COM Wed Jul 28 12:06:43 1993
Date: Wed, 28 Jul 1993 09:58:29 -0600 (CST)
From: Peter Hardie <hardie@herald.usask.ca>
Subject: Re: QRPP

On Wed, 28 Jul 1993, Charles Adams wrote:

> sorry about using this esoteric abbreviation. during the early days
> of QRP, when it was 50 watts, if you ran under 5 watts or so you were
> QRPP or QRPP. i guess now we have to use QRPP to mean under 0.5 watts.
> that would be one order of magnitude, i.e. a factor of 10. i just
> made this up, the 0.5 value. it's open for discussion and someone
> put it to a vote in the QQ.

It would help if you could first convince a lot of ops out there, and especially the folks at CQ magazine, that QRP means 5W or less. CQ continues to use QRPP for the 5W or less class in CQWW and WPX.

I heard a DX station last week reply to a station who claimed QRP and when the DX asked how much power the answer was 20 watts. I often get QSOs in the ARCI contest from people who claim to be QRP and then I find that they are running as much as 50W.

Once we're all agreed upon what QRP means, then we can decide what QRPP means!
72 de Pete hardie@herald.usask.ca VE5VA

From qrp-request@Think.COM Thu Jul 22 16:26:42 1993
Date: Thu, 22 Jul 93 15:26:32 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: qsl & photo

Gang,

guess i didn't post separately and i'm sure i wasn't clear. so let me try again.

i'm interested in putting together a Rogue's Gallery of the internet qrp group here in netland. so, get off your bench and take a photo or photos of rig(s), antennas, and whatever your proud of in the qrp world and send them to me. i'll scan them in and come up with a 8.5x11 page on each that i receive and we'll include them in the next phase of schematics or do them separate. your cost is the printing and postage only.

it is rather timely, in that Jeff M. Gold, noted author and contributor to this group, sent to me two photos - one of himself and the other of his son Danny. both these guys have appeared in a QST article that Jeff did on the MFJ 9020 rig operating from his front yard. he has also got another article coming out in next month's QST. in his photo i recognize two mjf qrp rigs and the hw9 in the background, but for the life of me i don't recognize the two rigs he has in his hands. Jeff, tell me what they are.

so let's get started on this one and don't miss the bus. get those cards and letters in to, K5FO, Chuck Adams, 830 waite drive, copper canyon, tx 75067. i'm good in the callbook since 1987.

there is no copper around that i have been able to find, but then my long wire seems to be working great. 40 meters at 1500Z today was open to KS with 2 watts.

i haven't gotten my QQ this month either. guess they are late again. i'll see Luke W5HKA on saturday at the OKC swapfest. maybe find out when we will be getting it.

i'm looking for a TenTec rig and hope to find one in OKC saturday. anybody else doing any swap meets this weekend?

i'll be seeing the OK qrp group (that's Oklahoma) and i'll probably wind up speaking at the session too. ;-)

72 de texas dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Jul 23 12:48:45 1993
Date: Fri, 23 Jul 93 11:48:32 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Re Index labs QRP+

Gang,

after Steve Greene's posting (KA1LM) i immediately called Index Labs at the number posted. i talked to Bruce Franklin, KG7CR. very nice feller on the phone and the rig sounds great.

steve is right. this is where TenTec and a lot of the others should have been. the digital filter audio sounds like an exceptional feature to have on a rig this price. all bands and general coverage receiver in a small package. small current drain on receive.

the only thing that i'll ask for in the next version is qsk without relay instead of the reed relay.

expect shipments to start mid-august. the first one on the net let us know. i'm gonna wait on this one. hoping for a tentec at OKC this weekend. cross your fingers for me.

look for me on 20 meters 14030-14070KHz mobile qrp this afternoon 4pm on CDT. 2100Z (UCT or GMT) ;-)

also carrying 10 meters in case that band is open. this morning, 6am CDT (1100Z) channels 2-34 were active. remember i'm in the country without cable, so i monitor periodically the tube to see how the MUF is doing. summer time and hot.... good for about 400 miles on the tube.

72 de k5fo/m5/qrp dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 23 15:33:34 1993
Date: 23 Aug 1993 12:15:04 U

From: "QM Administrator" <QM_Administrator@cpqm.saic.com>
Subject: Re: re-Want Ten Tec OMNI elm

Mail*Link(r) SMTP RE>re:Want Ten Tec OMNI elm
In your message of 23 Aug 1993 at 0923 EDT, you write:

> Clark :

>

> You might try calling the Ten-Tec Service Dept. I heard that these guys are
> really good and will help you out over the phone. I don't have the number but
> I'm sure someone else on the net does.

TEN-TEC NUMBERS:

Orders - 800-833-7373
Office - 615-453-7172
FAX - 615-428-4483
Repair - 615-428-0364

Address: 1185 Dolly Parton Pkwy
Sevierville, TN 37862

73,

Larry KQ4BY

----- RFC822 Header Follows -----

Received: by cpqm.saic.com with SMTP;23 Aug 1993 07:56:14 U

Received: by mail.think.com; Mon, 23 Aug 93 10:10:34 -0400

Received: from Think.COM by mail.think.com; Mon, 23 Aug 93 10:10:29 -0400

Received: from wrdis01.robins.af.mil ([192.41.249.81]) by Early-Bird.Think.COM;
Mon, 23 Aug 93 10:10:08 EDT

Return-Path: <lakeith@wrdis01.robins.af.mil>

Received: by wrdis01.robins.af.mil

id AA10665; Mon, 23 Aug 93 10:12:12 -0400

Message-Id: <9308231412.AA10665@wrdis01.robins.af.mil>

Date: Mon, 23 Aug 93 10:12:12 -0400

From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653
CCSG/SCDD)

Subject: Re: re:Want Ten Tec OMNI elmer / help!

To: babineau@bnr.ca

Cc: QRP@Think.COM

X-Orig-Date: Mon, 23 Aug 1993 08:28:00 +0000

X-Orig-From: "Michael (W.M.) Babineau" <babineau@bnr.ca>

X-Orig-Message-Id: <"19663 Mon Aug 23 08:29:20 1993"@bnr.ca>

From qrp-request@Think.COM Wed Jul 28 13:17:57 1993
From: jfw@ksr.com (John F. Woods)
Subject: Re: Re: QRPP
Date: Wed, 28 Jul 93 13:16:42 -0400

> It would help if you could first convince a lot of ops out there, and
> especially the folks at CQ magazine, that QRP means 5W or less. CQ
> continues to use QRPP for the 5W or less class in CQWW and WPX.

Heck, I think CQ's definition for QRP is 990W or less... ;-)

John, WB7EEL

From qrp-request@Think.COM Wed Jul 28 14:53:40 1993
Subject: Re: Re: QRPP
Date: Wed, 28 Jul 1993 14:51:34 -0500 (EDT)
From: "R.SCHREIBMAIER" <bob@mtdcr.att.com>

>
> > It would help if you could first convince a lot of ops out there, and
> > especially the folks at CQ magazine, that QRP means 5W or less. CQ
> > continues to use QRPP for the 5W or less class in CQWW and WPX.
>
> Heck, I think CQ's definition for QRP is 990W or less... ;-)
>
> John, WB7EEL
>

Well, I first got my nickname of "The QRPer" as a member of
the local DX club. I was referred to as a QRPer because I
was only running the legal limit... ;-)

73,
Bob K2PH

--

```
-----  
| Bob Schreibmaier      | UUCP:      att!mtdcr!bob      |  
| AT&T Bell Laboratories | INTERNET:  bob@mtdcr.att.com  |  
| 200 Laurel Avenue     | Telephone: 908-957-2591      |  
| Middletown, NJ 07747  | FAX:       908-957-7105      |  
-----
```

From qrp-request@Think.COM Mon Aug 23 10:10:29 1993
Date: Mon, 23 Aug 93 10:12:12 -0400

From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: re:Want Ten Tec OMNI elmer / help!

In your message of 23 Aug 1993 at 0923 EDT, you write:

> Clark :

>

> You might try calling the Ten-Tec Service Dept. I heard that these guys are
> really good and will help you out over the phone. I don't have the number but
> I'm sure someone else on the net does.

TEN-TEC NUMBERS:

Orders - 800-833-7373
Office - 615-453-7172
FAX - 615-428-4483
Repair - 615-428-0364

Address: 1185 Dolly Parton Pkwy
Sevierville, TN 37862

73,

Larry KQ4BY

From qrp-request@Think.COM Tue Aug 24 10:25:50 1993
Date: Tue, 24 Aug 1993 08:22:42 EDT
From: "Fred Cady iee@c@msu.oscs.montana.edu" <fred_c@ece.ee.montana.edu>
Subject: Reflector for Professors?

Does anybody know of a reflector or interest group for people teaching undergraduate microcomputer classes? I am doing that here at Montana State University and thought it would be a neat thing to be able to share information like we do here on the reflector.

Thanks and 73, Fred KE7X

From qrp-request@Think.COM Thu Jul 1 19:06:11 1993
Date: Thu, 1 Jul 1993 19:04:21 -0400 (EDT)
From: Robert Marlan <rsm@world.std.com>
Subject: Remove from mailing list please

I enjoy the group, but have gotten just too busy to keep up!

oh well i need to retire and than re subscribe!
please remove me from the list
thanks
ism@world.std.com
is there a digest of this group??

From qrp-request@Think.COM Wed Aug 25 09:49:06 1993
Date: Wed, 25 Aug 93 09:40:14 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>
Subject: repair problem.

I have an AZDEN PCS-2000 which seems to be reducing its output power when I try to transmit into a matched antenna. If i unmatch the antenna the led's indicate that me power output goes up. The thing is i would rather not xmint into a missmatched antenna and it reduces the receive sensativity. Any ideas on what to check first. I do not have a good understanding of how crowbar circuits work. Thank's

* Rodney Clayton KA3BHY Howard County Public Schools *
* Ellicott City, MD USA *
* Systems Programmer ABRC@CATCC.BITNET *

From qrp-request@Think.COM Wed Aug 18 09:16:14 1993
Date: Wed, 18 Aug 93 09:15:04 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>
Subject: Required test equipment?

I have been reading thru QRP CLASSICS and reading this list for a little while now and I was wondering if a 'scope and spectrum analyzer are rewuiired to build these xmitters. If not then how little test equipment can I get away with?
KA3BHY

* Rodney Clayton KA3BHY Howard County Public Schools *
* Ellicott City, MD USA *
* Systems Programmer ABRC@CATCC.BITNET *

From qrp-request@Think.COM Wed Aug 18 10:47:21 1993
Date: Wed, 18 Aug 93 14:29:19 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Required test equipment?

Rodney Clayton, KA3BHY (ABRC@CATCC.BITNET) writes:

>
> I have been reading thru QRP CLASSICS and reading this list for a little
> while now and I was wondering if a 'scope and spectrum analyzer are
> rewuiired to build these xmitters. If not then how little test equipment
> can I get away with?
> KA3BHY

I would recommend you pick up a copy of Solid State Design, too.
Although SSD is getting old, it has several articles on test
equipment construction.

If you have a general-coverage HF transceiver, you have most of
the test equipment you need. You can listen for oscillators and
peak them on the receiver, and use the transmitter as a signal
source for receiver work. As a bare minimum, you need a sensitive
voltmeter with an RF probe. It needn't read accurately on RF,
just be capable of showing when a circuit is peaked. A scope is
even handier for such applications, but you can live without one.

If you have some QRP-frequency crystals, you can make up signal
sources for receiver testing and alignment. The hardest part of
building for me is getting the VFO on frequency. You can do
this with a general-coverage receiver, but a counter is faster.

We strive to publish projects that can be reproduced without
exotic test equipment, because most of us don't own spectrum
analyzers, either! Broadband circuits have been a real help
in this regard, as they require no "tweaking."

Good luck and 73,

Jim, KR1S
Assistant Technical Editor, ARRL

--
jkearman@arrl.org

From qrp-request@Think.COM Mon Aug 16 13:23:32 1993
Date: Mon, 16 Aug 93 13:21:54 EDT
From: jps@Kodak.COM (John Spoonhower)
Subject: review of Tejas-II backpacker

I picked this up from packet over the weekend.....thought some of you
might be interested.
John, KC2DU

MSG#68 08/14/93 13:08:43 FROM K7YHA TO QRP

SUBJECT: Tejas Backpacker II-Review

The following are my observations and comments regarding the Tejas RF Technologies new Backpacker-II QRP transceiver. My review rig was a factory assembled 30 meter transceiver that Bill Hickox, K5BDZ, sent me. The new rig differs slightly from it's predecessor the BP-I. The demensions are slightly larger (by 1/2 inch in width and depth) and a Mini-Circuit Labs TUF-1 mixer was used in place of the SBL-1. Bill re-worked the intermediate stages to redistribute gain to avoid feedback problems encountered by some builders of the BP-I. An LM380N-8 audio IC replaced the original LM386 in the BP-I to provide much more AF gain. Tejas offers the BP-II in kit for only for 40, 30, 20, 17 and 15 meters. The new manual is MUCH better than the manual that came with my BP-I. This is not a beginner's kit, so beware! The kit conforms to the guidelines setforth by the QRP ARCI on homebrew gear. The less experienced builder should have no major problems IF HE/SHE PAYS ATTENTION TO DETAILS AND TAKES TIME TO READ AND RE-READ THE INSTRUCTIONS CAREFULLY. The bigger cabinet offers more room for options and accessories like keyers, SWR/P circuitry, etc. The cabinet is the same nice looking anodized aluminum with crisp black silkscreened lettering. Front panel layout is well thought out and not cluttered. The design of the rig is sound and duplicatable results are obtained between radio indicating that Bill did his homework on the R&D end. The rig worked well and, when compared to my Argosy-II could hear everything that the Ten-Tec rig could hear. The BP-II is a direct conversion RX and, once proper Zero Beating techniques are learned, proves to be a breeze to tune. The BP-II suffered no AM breakthrough (and with WBAX only 1/4 mile away from me, AM breakthrough is a problem at K7YHA). The design is "bullet proof" and plays well. The dual stage CW filter provides 180 Hz and 110 Hz bandpass, respectively. Wide open the receiver passband is about 2.7 kHz wide. I could detect no difference in RX performance between the BP-I and BP-II. The TX put out 1.9 watts into my calibrated dummy load and provided some good DX on 30 meters using the Carolina Windom. TX waveform was clean with no tendency to click or chirp. QSK was as good as the Argosy. No thumps or pops were heard at 20+ These single band rigs are a great idea for the traveling QRPer. My review rig drew only 23 mA on RX and about 300 mA on TX. A single 4.5 Amp Hr gell cell can run this rig for an entire weekend of DXing with no problems. This little radio comes as a complete kit with everything except the battery, antenna and key provided. It's nice styling and size make it a very good choice for the active QRPer. Price is \$159.95 plus shipping from Tejas RF Technology, P.O. Box 720331, Houston, TX 77272-0331 (713) 879-9300 or FAX (713) 879-9494.

From qrp-request@Think.COM Thu Aug 19 12:54:51 1993
Date: Thu, 19 Aug 93 12:39:34 EDT
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: Revised -- For Sale Mizuho 20 mtr HT

REVISION OF FOR SALE NOTICE --- 20 MTR MIZUHO HT

20 MTR Mizuho Ht including the following optional items:

- * telescopic whip antenna
- * Mizuho crystal for 14.000 - 14.050
- * Custom JAN crystal for 14.165 - 14.200
- * Custom JAN crystal for 14.218 - 14.250
- * Mizuho crystal for 14.025 - 14.075
(crystals for 14.250 - 14.300 and 14.218 - 14.250 in radio now)
- * 12v solid state Mizuho amplifier
- * Hand Microphone
- * cw sidetone unit -- this is an external separate (vy small) unit
- * 7 700 mah nicads installed in radio
- * charger for internal nicads
- * Pelican waterproof case (nothing like these cases!) -- holds all of above

All in perfect cosmetic and working condition -----

Will ship UPS for \$350.00

New Mizuho HT's sell for 349.95 minus shipping and that does not include any of the above optional items.

The radio and all of the above were purchased new this last spring -- I am the original owner.

Thanks and 73,
Greg Buhyoff KN4FR Buhyoff@vtvm1.cc.vt.edu

From qrp-request@Think.COM Thu Jun 24 12:59:26 1993
Date: Thu, 24 Jun 93 12:58:19 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: RG 71 Coax

I have, in my hot little hands, a coax cable with BNC connectors on both ends. The markings say RG-71 MIL-C-17 77314 PLASTOID CORP.

Anybody know the impedance of RG-71? It aint in any of my books.

73,

Larry KQ4BY

From qrp-request@Think.COM Wed Aug 25 09:36:16 1993
Date: Wed, 25 Aug 1993 08:36:43 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: S&S Eng. Kit

Hi everyone:

OK,

I have built a few kits recently (quite a few). Well I thought I would get to take a break and work on things like mobile antennas. Things just don't seem to work out as planned.

While looking through the advertisement section of QST (one of my favorite sections..HI HI), I had noticed there was a kit that even Chuck hasn't talked about yet. This is the S&S Engineering ARK40 (think they now make a 20 also).

Ad:

Superhet
Synthesized to 100Hz
RIT +/- 500Hz
Sensitivity 0.3uv
CW crystal filter
CW audio filter
AGC
3-4 watts
Full QSK
Sinewave sidetone
Extruded chassis
coils pre-wound
silkscreened boards
complete kit
guaranteed to work

The \$269.95 price tag really put me off. I paid a lot less for my HW9 with the WARC band pack and all the replacement parts I blew up along the way since I built it.

I got the box in the mail yesterday. The manual is the size of the computer text book I am going to use this semester. The quality of the manual is better than the text I am about to use. The photos are the BEST I have seen including the ones in QST.. I would love to have the photographer do the photos for my articles. The manual is extremely well written and clear. Step by step with explanations of how things work and a good trouble shooting section.

Each one of the boards and its components are packaged separately. The boards are beautiful. The parts all look top quality. The case is a lot smaller than it looks in the magazine and should be good for my portable operations. The rig looks like it is going to be very rugged. There are over 1000 solder connections.. should keep me out of trouble for a little while (probably not).

Will keep ya'll posted.

72

Jeff, AC4HF

PS anyone know how much the new Icom 707 is going to be?

From qrp-request@Think.COM Wed Aug 25 10:43:24 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Re: S&S Eng. Kit
Date: Wed, 25 Aug 93 9:25:12 EST

Jeff,

Doesn't the ARK40 use thumbwheel switches?
I think it would be tough tuning the band with thumbwheel switches.

Jim, WD9EYB

From qrp-request@Think.COM Wed Jul 28 12:22:34 1993
Date: Wed, 28 Jul 93 12:14:01 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>
Subject: satalites qrp?

Is there such a thing as working satalites with QRP homebrew equipment?
If so which satalites? Can it be done with reasonable antennas(small managable)? Thank's Rod

* Rodney Clayton KA3BHY Howard County Public Schools *
* Ellicott City, MD USA *
* Systems Programmer ABRC@CATCC.BITNET *

From qrp-request@Think.COM Wed Jul 28 14:17:47 1993
From: g-taylor4@tamu.edu

Date: 28 Jul 93 13:17:45 CDT
Subject: Re: satalites qrp?

> Is there such a thing as working satalites with QRP homebrew equipment?
> If so which satalites? Can it be done with reasonable antennas(small
> managable)? Thank's Rod

Yes, believe this is primarily confined to the LEO RS series, in fact there seems to have been a flurry of articles in QQ within the last year on this subject, most recent in the July issue. Works ok with simple antenna's near as I can tell, unfortunately I can only work them when my line noise drops low enough on 10M that I can hear weak signals.

I also seem to remember that the OSCAR series satelllites have qrp days but what that means I'm not sure.

72, Greg KD4HZ

Dr. Gregory S. Taylor !MAIL: 110 Dairy Science Building
Extension Program Leader for ! College Station, TX 77843-2124
Community Development !VOICE: 409-845-4445
Texas Agricultural Extension Service!FAX: 409-847-8744
Texas A&M University System !EMAIL: Reply or g-taylor4@tamu.edu

From qrp-request@Think.COM Mon Jun 21 12:43:17 1993
Date: Mon, 21 Jun 93 12:39:46 EST
From: Brad Staff <B.Staff@mi04p.zds.com>
Subject: schematic capture & pcb layout programs?

Suppose I wanted to take a schematic out of QRP Quarterly, and turn it into a PCB. Are there any cheap or free programs out there that will handle schematic capture, and layout a pcb?

72,

+=====+
| Brad Staff 616-982-5791 (tel) |
| Zenith Data Systems 616-982-5997 (fax) |
| Hilltop Road b.staff@zds.com |
| St. Joseph, MI 49085 aa8if |

+=====+

From qrp-request@Think.COM Mon Jul 19 11:01:48 1993
Date: Mon, 19 Jul 93 10:01:39 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematic OF-1 Osc

Gang,

i'm took a second this morning an entered the schematic for the old (and i mean old) International Crystal OF-1 LO Oscillator circuit.

for you young critters, International Crystal, manufacturer of crystals in Oklahoma City OK, made a small 1x1" board oscillator kit that ran off of 9 to 12V. i used one in 1970 timeframe on 40 meters and best distance was ND from central texas in an apartment using long wire hidden along eve of apartment complex. clandestine operation as K5FJZ.

i used a Drake 2A receiver with it, qsk, no switches or t/r circuitry.

anyway, i want to see how many of you guys/girls can print and display postscript files. if you can, send me email. i'll mail you the schematic.

the program to do the schematic i wrote myself and haven't invested that much time in. i was doing a book on graphics and thought that i had enough functions written to easily put a front end in and get this as a byproduct of my efforts. worked out pretty nicely, if i do say so myself. i'll throw in a copy in the schematics this afternoon.

the file is 2202 lines and 39,295 critters. you don't wanna list this out, just send it to a postscript printer.

if you have a HP plotter or Amdek plotter i can send you the commands that way too. dealers choice..... default is postscript, unless i hear otherwise.

i'll send copy to Bruce and he can put it at the ftp site.

the circuit works from 4 to 22 Mhz with the 220pF values. if you really want to beat on your ears and get on 80Meters, then substitute 470pF values for C1 and C2.

i'll have to breadboard up one, or maybe somebody on the net already has one going, but if i remember correctly (and i probably don't) but i think it's 500mW.

i used the thing direct to the antenna with no TVI. nowadays i'd add a 5-Element Chebyshev Low-pass Filter just to be on the safe side. too many lawyers lurking out there now. ;-) :-) sorry Mr. Savage. :-)

more complicated circuits, like the new mxm rig take almost 500,000 characters in postscript. i'm working on seeing how the Tango program does. the input data is only 179 lines at 6,121 characters.

ok, i leave it as an exercise for someone else to pass along circuit board layouts. :-)

72 de k5fo dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Jul 12 14:07:58 1993
Date: Mon, 12 Jul 93 12:04:24 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematic status

gang,

just a quick update. the schematics should go out tomorrow morning or tomorrow afternoon. took me extra time to get final layout so that they would be somewhat useful. i haven't opened the letters with the checks yet. i'll do that this afternoon. and then after the schematics are mailed, i'll cash them and then go on a miniexpedition somewhere. maybe Loving county. ;-) anybody a county hunter qrp'er? collect all 3076, operators are standing by to take your call.

i checked into TNC again. worked W5LXS. skip was short on 20 meters yesterday. i listened for you guys and girls but didn't hear much activity on 14.060 or 10.106 or 7.040. did work on 0 in st louis and a kp4ddb from puerto rico. i'll have run that one through the circle bearing and see if 2 watts to PR gives me my 1,000 miles per watt. i got 1,800 miles per watt for YN1CC on 40, but i haven't gotten around to getting card to his qsl manager. wanted to give 'em enough time to get the logbook(s) to him.

somebody post the net schedules for QRP ARCI. may be that somebody wants to get active on the nets and it's a good way to talk to other ARCI members.

ciao,

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Wed Jul 21 16:28:12 1993
Date: Wed, 21 Jul 93 15:27:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematic update

Gang,

it's a done deal.

start your clocks and let's see how the US Postal Storage outfit does on Two Day PRIORITY Mail!!

here, by last names, are the lucky winners -

Laudon
Okas
Smith (TG)
Majewski
Lapin
Keith
Hendricks
Witherspoon
Stein
Purcell
White
Cady
Bishop
Penc
Schreibmaier
Diana

Pierce
Hardie
Quagliana
Turner
Savage
Walker
Kelsey

wow, what a list. ok, your credit line is now \$2 or more, if you sent more.

Bob N3MBY, sorry, but i didn't open the envelopes until today. i'll send your boxes out tomorrow. sorry about that. i promised i wouldn't open them until i was ready to ship and didn't think that i'd have box orders mixed with schematics. my mistake. :-)

Jim Price, K6ZH, what is your snail mail address?

thanks to those who contributed with schematics. your copy in the mail.

before i arrange part 2, let's see how you guys like the first edition. give me feedback and let me know if it's money and time well spent or am i just outta touch with reality. i've gotten permission for some more in the next group. i wanna expand to back issues of Ham Radio, etc.

let me know what you want and need. i'd offer a freebie for contributions, but i'm sorry i can no longer do that. the cost of the postage is just outta sight. and to think they (USPS) want to go up more.

if a hole punch wound up in a bad spot, i haven't checked, then let me know and i'll figure out an update and what have you. if we need to dig up detailed parts lists in some areas, we probably have enough talent in this group to do it.

how many of you have NEVER NEVER put together or experimented with a qrp rig or other? don't be ashamed. i just want a statistic to see how much help we can give out that would be helpful and others on the qrp can contribute. thing for us to do is to find closest Elmer for you.

for now 72 de k5fo dit dit

p.s. if you sent check last few days, don't worry. if your name not on the list, let me know.....

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Aug 3 10:09:55 1993
Date: Tue, 3 Aug 93 09:09:41 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Schematic Update

From qrp-request@Think.COM Tue Jun 22 22:44:00 1993
Date: Tue, 22 Jun 93 21:43:45 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematic updates

to date, these are the schematics and manuals that i have accumulated:

1 - ten tec argonaut 505	22 pages
2 - kanga products	15 pages
3 - a&a engineering	18 pages
4 - heath hw-9	12 pages
5 - heath hw-8	15 pages
6 - heath hw-7	18 pages
7 - mx-28s	4 pages
8 - mxm rcvr/transmitter	10 pages
9 - ten tec century 22	5 pages
10- ten tec argonaut 515	26 pages
11- ohr 20/40 qrp rig	10 pages

so the total is about 100 pages (50 sheets front & back) and i called Kinko here in dallas. my cost about \$150 US for 25 copies. let's see, that's about \$6 each and add about \$2 for shipping and envelopes - i get a total or \$8 or so. i'll do a more detailed analysis later in the week.

my question. are you interested? let me know via email to get an estimate of the level of interest. i don't want to go into business

here, i'm just wanting to provide a source of a wealth of information.

i don't wanna split this up. it's all or none. i ain't no bookkeeper.

also, this is unbound and prepunched 3 hole for putting into 3 ring binder.

again, let me know what you think. anything that i left out, let me know.

72 de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Wed Jun 23 08:58:05 1993
Date: Wed, 23 Jun 93 07:57:55 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematics

i'm getting good responses. the project was a go from the start.

forgot to add argonaut 509 to the list. there are some more coming.

the cost may go to \$10 and that doesn't seem to bother anybody.
all you guys and girls making the big bucks? sounds like it.

of course, this project is to help everybody in this group and it is not for me to make any money. once i get it together, it's not taking that much of my time and it's fun. just remember, i got an 80 hr a week job like everybody else, a yard, a wife, and all that other stuff that comes with the territory.

someone else is working on the schematic capture and pc board stuff and i think that's a great project also. all this brain power in one place. it's great.

hope everybody is ready for field day. it's getting closer and closer.....

keep the signals clean and strong and don't drift too far away.
operators are standing by. don't send money yet. i ain't ready.

72 es gl de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of
SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Jun 28 15:43:51 1993
Date: Mon, 28 Jun 93 14:43:41 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematics

ok, let the ball roll.

i'll have the schematics ready to rock and roll on monday.

ok, \$12 gets you a copy. wait you say! i thought it was \$10.
well \$12 will get you a copy and whatever is left over will get you
the updates, etc. until your account runs out. i'll post the
final costs as we progress here. i don't make a dime and don't
want to make a dime.

you get 8.5x11 inch pages, prepunched for three ring binder. i feel
this is better - 1. it's standard 2. you don't have to punch
3. updates slide in real nice and easy 4. you can add your own
stuff 5. you can go into business with your own updates 6. promotes
free market and my mind keeps on going.

you don't have to warn me your check, m.o., or whatever is in
the mail. surprise me. :-)

chuck adams
830 waite drive
copper canyon, tx 75067-8581

p.s. don't send cash. somebody in the US P.O. needs the money more than
i do. :-)

DX stations add a couple just for the extra your government and mine
needs to work together. :-) ;-)

thanks to all who helped and i'll get back to you.

72 from the ranch in texas de k5fo dit dit

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Fri Jul 23 13:39:31 1993
Date: Fri, 23 Jul 93 12:39:20 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematics

pointed out to me that somehow i did not get the hw7 schematic in the group. i checked and i don't have it. got one being sent to me and i'll put it with phase 2. that's why i thought the three-hole punch was a good idea. ;-)

version 1.0 of the phillips-adams code will be updated. i keep thinking of things as i go along. you use some abbreviations so long that you forget about them.....

have a good weekend. hope to work you TNC net sunday if not mobile.

72 de k5fo dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Aug 3 14:36:31 1993
Date: Tue, 3 Aug 93 13:23:49 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: schematics

Jim Kearman, KR1S, makes a good point and one that i'm sure i don't want to cross over on copyright infringement.

at the present time we have available:

1. ARRL's "QRP Classics" still in print and a good buy
2. Doug Hendricks's reproduction of the QQ for \$10/year

maybe we should stick to just schematics for rigs no longer in production or for which i have permission to reproduce. the function here is to provide valuable information for buyers of used equipment, for which the manual(s) are no longer available. it is also a source of info for the experimenter at home.

Jim, i don't consider your remarks as 'dashing' cold water on my project. i'm not wanting to get myself or anyone else in trouble. i support the ARRL with my membership (which i want to keep) and have purchased your books as well as others. keep up the good work.

i'm trying to stay within all bounds of the laws, both local, state, and international.

thanks to all involved,

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Aug 3 19:46:45 1993
Date: Tue, 03 Aug 93 16:46 PDT
From: Michael Stein <OSYSMAS@MVS.OAC.UCLA.EDU>
Subject: schematics (Huff & puff?)

> Jim Kearman, KR1S, makes a good point and one that i'm sure
> i don't want to cross over on copyright infringement.
>
> at the present time we have available:
>
> 1. ARRL's "QRP Classics" still in print and a good buy
> 2. Doug Hendricks's reproduction of the QQ for \$10/year
>
> maybe we should stick to just schematics for rigs no longer in
> production or for which i have permission to reproduce. the

> function here is to provide valuable information for buyers of
> used equipment, for which the manual(s) are no longer available.
> it is also a source of info for the experimenter at home.

Besides, I already have the ARRL stuff.. :-)

Does anyone have a good pointers or other info on a frequency
stabilization technique called "huff and puff"? I've seen
references (G-QRP), but not a full circuit.

From qrp-request@Think.COM Fri Jul 16 13:50:32 1993
Date: Fri, 16 Jul 93 12:41:53 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Schematics - Good/Bad News

Gang,

Good News: Schematics Put Together
Good News: 200 pages, 100 sheets front and back
Good News: TenTec Century 21, Argo 505, 509, 515
 HW-7, 8, and 9 series
 MFJ 9020
 K1BQT wiht NN1G mods as in Jan 93 QQ
 Kanga Stuff
 K9AY stuff
 OHR 20 mtr QRP (older rig no longer produced)
 MXM xmtr and SuperRX (WA6IVC, Bruce Williams)
Good News: Everybody that order gets one
Bad News: I got lots of orders which brings up the next line -

Bad News: Printer delayed til Monday
Good News: The extra wait probably worth it!

Good News: Cost per set \$7.00
Bad News: US Post Office Gets \$3.10 for postage
Good News: Gives you about \$1.90 credit for updates, etc.

Good News: I'm taking material for next edition. Stupid me.
 I'll talk to Ade and Michael and other authors for
 permissions on the Hot Watter Book (HW-8 mods) and
 i'm looking for old articles outta HamRadio, etc.
 I know you guys collect this stuff. New stuff will do
 also.

Are you interested in C code for great circle bearings?
C code to generate inductance values, like Michael WA8MCQ

did in the QQ? i did it and a week later he already had
same idea in the QQ. i'm always behind.... ;-)

not the QRPers Bible, but we're getting close.

ok, everybody have a nice weekend. i'll be on. was on last nite
0500Z when you guys were nite-nite. 40 was in pretty good shape.
probably have a flare this weekend with my luck. :-)

let us know what you see at any swapmeets, fests, etc. i'll be
doing Oklahoma City the 24th.

ciao,

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Aug 20 17:21:28 1993
Date: Fri, 20 Aug 1993 16:21:53 -0500 (CDT)
From: "Jeff M. Gold" <JMG@ntech.edu>
Subject: Scout

What frequency is the picture resona on? is it a QRP
picture?

Jeff, AC4HF

From qrp-request@Think.COM Thu Aug 19 01:16:18 1993
Date: Wed, 18 Aug 93 22:14:26 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Scout Review

As some of you might know, I am the editor of QRPP, the Journal of the
Northern California QRP Club. Mike Siegel, KI6PR, one of our members submitted
this review for publication. I have not seen anything on it yet, and imagine
several of you are interested. Here it is, a pre-publication preview. Contact
Mike if you are interested in reprinting.

Product Review: Ten-Tec Model 555 Scout HF Transceiver

In the Amateur Radio sales market, there has been an increasing trend

towards more features in basic rigs. These additional "whips and bells" have also brought much higher prices for most manufacturers' bottom-of-the-line "basic" radios. As we have all discovered in the QRP game, "more ain't better". Ten-Tec proves this with the introduction of their Model 555, which they have named the Scout.

The night before Dayton was to open, I had a telephone conversation with a ham about aspects of mobile operation; this ham reported rumors about a new mobile rig from Ten-Tec, that was to be unveiled the next day at Dayton. I was so fascinated by the reports and rumors, that the very next morning, I called Ten-Tec to place my order. The rig arrived August 2, packed in the usual generic boxes that Ten-Tec uses for shipping - no resale value on THEIR cardboard!

The Scout is a very unique rig, not only in it's simplicity, but in the design itself, and even moreso, in the way it targets it's sales market. The simplicity of design sticks to Ten-Tec's "less is more" approach to keeping controls and features simple, but effective. No fancy bells and whistles here -- just some basic controls that do exactly what they're labelled for.

The design itself is unique, as well. Rather than cluttering up the front panel with band switches, or crowding the interior with other boards, the Scout uses interchangeable plug-in modules, one for each band, 160 through 10 meters (the lower half of 10, 28.0-29.0 MHz). More on this later.

Even the market that Ten-Tec is targetting is unique. The rig offers features and specifications that appeal to the experienced mobile operator, such as large-digit display and built-in keyer. But it also offers something for the Novice operator on a budget as well - a low entry-level price. For \$495, the Scout comes with one band module (your choice of band), and allows for the addition of other bands at \$25 each, as the operator can afford to add them. This rig even allows for those of us that only operate on one or two bands, in that you only purchase the bands you're interested in. To top it off, the Scout is actually SMALLER than Kenwood's TS-50 (see specifications below). Quite a unique package, in all.

FRONT PANEL CONTROLS

The front panel of the Scout is simple in layout: two concentric knob controls, three miniature bat switches, and a large vfo knob. The digits are a HUGE .56" tall, and accurate to 100 Hz; the MHz digit is actually painted on the front of the band module, and at first glance, appears to be integral to the rig. The bat switches are multi-function. The first switch is simply for power on/off. The second switch activates the RIT, or sets the speed of the built-in keyer. The third switch either activates the optional noise blanker, or activates the TUNE mode.

The concentric knobs offer precise controls for volume, mic gain, RIT, and filter bandwidth. A word about the filter: Ten-Tec has included in the Scout their patented Jones filter, a variable-bandwidth 9-pole crystal filter that offers filtering from 2.5 to 0.5 kHz. More on these functions later. The Scout also sports a small meter, indicating signal strength, relative power output, and an SWR function (controlled from the rear panel).

REAR PANEL

The rear panel offers just as simple a layout: aside from the expected

ground lug and SO-239 connectors, there are connectors for DC input, an auxillary 13.8V DC output, TWO 1/8" key plugs -- one for a straight key, one for a set of iambic paddles, and a mini-bat switch for calibrating the SWR function on the front-panel meter. More than half of the rear panel is made up of heat sink, with the remaining connectors and controls all located towards one end of the rear panel.

OPERATION

For as simple a rig as the Scout appears, it also operates the same way -- simple. The band modules slide in smoothly, yet have a snug fit. To remove a band module, each module has a small lever on the front to "pop" it loose from it's socket. Each module covers a 500-kHz segment, plus 50 kHz overshoot at each end of the band. To cover the entire 1-MHz portion of 10 meters, the 10-meter module has a small sliding switch that toggles between the 28.0-28.5 and the 28.5-29.0 segments.

Once powered up, the rig demonstrates some audio hiss; in certain other rigs, I have associated this hiss with excessive RF gain. In this case, however, the hiss is audible only when the Jones filter is wide open. The audio that one hears is definitely affected by the Jones filter - when the filter is wide open, one tends to hear more highs in the audio, and as the filter is tightened, the audio becomes a very pleasant, mellow, almost broadcast-quality. In the CW mode, the filter can be cranked all the way down to 500 Hz, with no detectable ringing or attenuation of target signals. Needless to say, I am VERY impressed with this new filtering system.

The mic gain is still something of a minor mystery to me; I can't seem to deliberately over-drive the audio. Like most other Ten-Tecs, the Scout uses an LED indicator for proper ALC adjustment - the LED lights up on audio peaks. I deliberately adjusted the mic gain so that the LED was constantly lit, and was told by other stations that the audio was not at all objectionable. With the mic gain properly adjusted, however, and using the optional 700C hand mic, I received glowing reports of truly high-fidelity audio; one station even remarked that the audio reminded him of the best audio from the days of AM! The 700C hand mic, by the way, while appearing clunky and cheap, is actually very light and solid, and demonstrates no pop or creak in the audio.

Rather than a conventional VFO, the Scout uses a PTO (permeable-tuned-oscillator), using a large variable inductor. While I would not call the tuning knob stiff, it does require a small effort to turn it. I would consider this something of an advantage to a mobile rig, since it forces you to make deliberate tuning adjustments. The tuning is relatively slow and positive, both also mobile advantages. The knob turns smoothly, with no discernable backlash.

The RIT gives a solid 3-kHz spread, 1.5 kHz on either side of the VFO frequency, and the variances are reflected in the large LED display. The display is also used to indicate the iambic keyer speed, when the mini-bat switch is activated. The keyer operates from 5-50 wpm, but will automatically default to 25 wpm, each time the rig is turned on. Keyer speed is actually controlled from the iambic paddles; while in the speed-display mode, if the dit paddle is struck, the speed increases, and in turn, decreases each time

the dah paddle is hit.

The optional noise blanker is of a standard type, focused primarily on ignition and pulse-type noise. Unlike many other factory noise blankers, however, the Scout's NB does not appear to be prone to incurring buckshotting of received signals, as is common in some other rigs.

On the air, there is no mode-switching; simply hit the paddles if you want CW, or key the mic if you want SSB. The sideband selection is also automatic, dependant on the band you're operating; unfortunately, this does not allow for running the opposite sideband, but one can't have everything.

In the CW mode, Ten-Tec's famous full (REAL) QSK is flawless and fast. No chirps or other anomalies can be heard while operating (sorry, I only took it to 42 wpm), and the keying and shaping are quite comparable to the Omni-V - smooth on both make and break, and steady in between.

All in all, the rig has received nothing but compliments on the air, even though I went out of my way to deliberately elicit any negative comments from my transmitted signals. The most interesting part is that nobody even realized that I was running only 50 watts! As the rig comes out of the box, it is factory pre-set at 50 watts, but is externally accessible for adjustment down to the 5-watt area. There is a trick to this, however; when Ten-Tec was field-testing the Scout, they found that the tune mode could cause fuses to blow. So before shipping, they re-configured the rig so that the output in the tune mode was limited. In making this change, however, they restricted the amount of adjustment possible for operating power output. Ten-Tec has promised to put out a mods sheet for moving a jumper to defeat this restriction.

MISCELLANEOUS COMMENTS

The fit and finish of the rig is on a par with virtually all the other manufacturers, providing clean lines and a tight fit. Ten-Tec is still using the heavy glass-epoxy boards in their construction; most of the rig is built on a single, large board, with several smaller sub-assemblies (NB, etc.) mounted in areas set aside especially for such mounting. The interior of the rig still has lots of room in it, presumably to allow for owner servicing or modification, both of which Ten-Tec still highly encourages.

The manual is very complete, including operating instructions, service instructions, and even schematic diagrams of the plug-in band modules. There is even a list of connectors, giving the Radio Shack stock numbers! Ten-Tec has always had an outstanding reputation for customer service and support, and this is also borne out by inclusion of fax and modem phone numbers in the owners' manual.

Ten-Tec also offers a line of optional accessories, including a mobile mounting bracket, a 200-watt antenna tuner, and a weighted iambic paddle.

SUMMARY

While this report is somewhat UN-technical, I personally don't feel that bench tests mean a whole lot. I prefer instead to see just what the rig does and sounds like on the air. And quite frankly I'm impressed with the Scout. I expected a bare-bones rig, and instead, got a radio that I'm going to have a lot of fun with for a long, long time.

Would I change anything on this rig? Maybe. I think I would actually

prefer a separate RF gain control, independant of the other controls and functions; I find this feature useful in even the most sophisticated radios. And I would prefer to see the Scout use 1/4" CW jacks, just to facilitate some standardization and swapping around of keys and paddles. But for the price, I can't honestly think of another single thing I would change.

While this review has been centered solely on the 50-watt version of the Scout, Ten-Tec says that they will be producing QRP version, rated from 5 watts down. I look forward to hearing this rig on the air. I really think Ten-Tec is going to get a LOT of attention in the next year. And for all the right reasons.

GENERAL SPECIFICATIONS

MODEL: 555 Scout
PRICE: \$495, plus shipping
FREQUENCY RANGE: All ham bands, 160-10 (28.0-29.0) meters
DISPLAY: 4-digit, 100 Hz resolution, .56" LED
FREQUENCY CONTROL: Permaeability-Tuned-Oscillator (PTO), mixed with a crystal oscillator for each band.
POWER REQUIRED: 12-14 VDC, 600 mA receive, 10 A transmit @ 50 watts out;
4.5 A @ 5 watts out
DIMENSTIONS: HWD: 2.5" x 7.25" x 9.75"
WEIGHT: 5 lbs., 3 oz.
RF OUTPUT: 50 watts, factory set, ALC controlled; 15 watts nominal in TUNE
T/R SWITCHING: PTT on SSB; QSK on CW
IAMBIC KEYER: 1-50 wpm; Curtis type B, 15% fixed weighting
CARRIER SUPPRESION: -45 dB typical
UNWANTED SIDEBAND: -45 dB typical @ 1.5 kHz tone
THIRD ORDER INTERMOD: 30 dB below two tone @ 50 watts PEP
SENSITIVITY: .35 uV typical for 10 dB @ 2.5 kHz bandwidth
SELECTIVITY: "Jones" 9-pole xtal filter, front panel adjustable,
500 Hz to 2.5 kHz
DYBNAMIC RANGE: 85 dB @ 2.5 kHz bandwidth, at 20-kHz spacing
THIRD-ORDER INTERCEPT: +1 dbm
NOISE FLOOR: -126 dbm typical
I-F FREQUENCY: 6.144 MHz
AUDIO: 1 watt @ 4 ohms with less than 2% distortion

This arrived too late for the 2nd issue of QRPP, but will certainly be printed in the 3rd issue. My thanks to Mike for an outstanding job! 72,
Doug

From qrp-request@Think.COM Thu Aug 12 12:44:32 1993
Date: Thu, 12 Aug 93 12:43:32 EDT
From: ABRC000 <ABRC%CATCC.BITNET@VTVM1.CC.VT.EDU>
Subject: service manual for tempo s1

sorry if this is not appropriate for this list but its only list I know close to the topic and with mail access. So does anyone know where I can get a copy of a service manual for a Tempo S1? Does someone have a copy they would like to sell? Thank's

```
*****
* Rodney Clayton KA3BHY          Howard County Public Schools *
*                               Ellicott City, MD  USA      *
* Systems Programmer             ABRC@CATCC.BITNET          *
*****
```

From qrp-request@Think.COM Fri Aug 13 08:53:58 1993
From: dquagliana@attmail.com (os2user@vmdoug.utsd.att.com)
Date: 13 Aug 93 13:41:12 GMT
Subject: service manual for tempo s1

Rodney Clayton KA3BHY abrc@catcc.bitnet writes:

> ... So does anyone know where I
> can get a copy of a service manual for a Tempo S1? Does someone have a
> copy they would like to sell? Thank's

Contact Henry Radio. They usually have an ad in the first few pages of QST. Call them and ask the "front desk" for the Amateur Radio department. Tell them you want a copy of the service manual. They will send you a copy for a few dollars. Disclaimer: I have no relationship with Henry Radio other than the fact that I own a Tempo S1 myself.

As long as we are discussing Tempo S1 radios, does anyone have any interesting attachments or modifications that they would like to share?

Douglas Quagliana KA2UPW
dquagliana@attmail.com

From qrp-request@Think.COM Thu Aug 12 15:41:17 1993
Date: Thu, 12 Aug 93 15:42:56 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: service manual for tempo s1

In your message of 12 Aug 1993 at 1339 EDT, you write:

> sorry if this is not appropriate for this list but its only list I know
> close to the topic and with mail access. So does anyone know where I
> can get a copy of a service manual for a Tempo S1? Does someone have a
> copy they would like to sell? Thank's
>

> *****

> * Rodney Clayton KA3BHY Howard County Public Schools *
> * Ellicott City, MD USA *
> * Systems Programmer ABRC@CATCC.BITNET *
> *****
>

Have you tried Henry Radio(the original importer)? The last time I saw them at the Dayton Hamvention, they were still selling battery packs and cases...

73,

Larry

From qrp-request@Think.COM Fri Aug 13 12:23:12 1993
Date: Fri, 13 Aug 93 10:03:29 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: service manual for tempo s1

In your message of 13 Aug 1993 at 0953 EDT, you write:

>
> As long as we are discussing Tempo S1 radios, does anyone have any
> interesting attachments or modifications that they would like to share?
>

Ah! My first HT!!! \$350.00 from an Indiana dealer at the Louisville, KY, hamfest. He brought two of them. My partner and I bought both of them... Found rubber duckies before the day was out.. Used that sucker for years... If finally quit transmitting. Traded it to a friend for some computer item.. He found that the contact from the antenna connection to the board was bad. Replaced the contact with a BNC connector, bought a new rubber dummy load antenna and his son, Chris, a 9 year old Novice, is still using the rig. Other than that mod, I think I replaced the battery pack about 10 years ago. One of those items I should have kept!!!

Anyone need the original rubber duckie antenna. I think it is still in the desk drawer, at home.

Larry KQ4BY

From qrp-request@Think.COM Mon Aug 2 14:49:19 1993
Date: Mon, 2 Aug 93 8:49:03 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: signal purity in older circuits

Remember, I make no claim as to the performance of these VERY low power transmitters. It is every amateur's responsibility to insure that his/her transmitted signal meet all legal standards. We are supposed to monitor our signals with the proper test equipment. 'Builder Beware!'

Jeff, NH6IL

From qrp-request@Think.COM Thu Jul 22 09:07:01 1993
Date: Thu, 22 Jul 93 09:06:06 -0400
From: comas@dwcu03.nyo.dec.com (andrew comas)
Subject: Small Solar Panels & Controllers?

I'm just getting started in solar power qrp. I am looking for a very portable (backpack-able) solar power set up. I've corresponded with several companies (Antenna West, Sunlight, Real Goods) and they seem to recommend solarex MSX-10 (10W) panel and either the M2 or the Sunlight controllers. I have a 4.5 Ahr gel cell and will probably get a 40Ahr battery later (and no I do not plan to backpack with this one...). The qrp rig is a MFJ-9040 (40m, 1A transmitt, 40ma receive, though I am planning to get a new qrp rig which is 1A trans & 140ma rec.)

Does this sound anywhere near sane? I am concerned that the MSX-10 is only a one year warrentee, while a Siemens M20 (yes I know it's about 20W, 100 sq inches bigger, 3 lbs heavier, and I don't know how much more...) has a 10 year warrentee. Should I even worry about this? Lastly, can I run my qrp rig off the battery while the panel is charging (or whatever) the battery through the M2 or Sunlight controllers?

thanks,

andrew KF2JH

From qrp-request@Think.COM Tue Jul 13 01:10:21 1993
Date: Mon, 12 Jul 93 22:08:44 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Source for aluminum cases

I just got my order of cases from Chuck, K5F0. These are aluminum, 2.5" high, by 5.5" deep and 6.5" wide. They are excellent in construction, solid, and are just the right size for qrp rigs. At one time Chuck mentioned that he had 500 of these. I got 6 of them and am very happy with them. Contact

Chuck if you are interested.... All the usual stuff applies, I am not an agent, employed by or related to by marriage or otherwise K5F0. Just want to let the rest of you know of a great source for cases. 72, Doug

From qrp-request@Think.COM Thu Aug 19 14:09:39 1993
Date: Thu, 19 Aug 1993 14:05:51 -0400
From: Brad Mitchell <bmitche1@CBA.Kodak.COM>
Subject: Spider Transceiver

Hello all.

Gary (N2JGU) and I have just about got all the parts together for building the Spider Transceivers. (One for 80, and one for 40). The boards are etched and all. Anyway, were there any pit falls that any of you found in the process of construction? Any recommendations on enclosures etc?

73 Brad WB8YGG

From qrp-request@Think.COM Mon Jul 12 19:19:09 1993
Date: Mon, 12 Jul 93 16:17:27 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Sprat or QRP QRtrly ARRIVED YET????

Has anyone received their summer issues of Sprat or QRP Quarterly???? Hmn, they are either late or something happened to mine. CUL, 72, Doug KI6DS
dh@csustan.edu

From qrp-request@Think.COM Mon Jul 19 08:49:03 1993
From: comas@subway.enet.dec.com
Date: Mon, 19 Jul 93 05:49:00 PDT
Subject: subscribe

I would like to subscribe to this qrp conference.
Please send mail to comas@nyo.dec.com and not to this address.
thanks in advance
Andrew Comas KF2JH

From qrp-request@Think.COM Wed Jul 21 07:36:30 1993
Date: Wed, 21 Jul 93 13:36:17 +0200
From: nnsde01@mailserv.zdv.uni-tuebingen.de (Hans-Joachim Dezelski)
Subject: subscribe

subscribe

From qrp-request@Think.COM Tue Aug 10 07:45:39 1993
Date: Tue, 10 Aug 93 07:45:17 EDT
From: bmitchel@Kodak.COM (Brad Mitchell)
Subject: Sudden RX for 30 meters.

Hi all, I finally got my sudden receiver for 30 meters going a couple of days ago, and I was wondering if anybody else on the net had built this particular version of it?

I had some problems getting the thing to oscillate with the caps mentioned in the text from 73 magazine.

Then last night I saw a packet request for help on the Sudden for 30 meters.

Sounded like the guy was having the same problems I had experienced.

Anyway, I forwarded my fixes to him, and I was wondering if anybody here wanted to compare notes?

P.S. I made my first contact with the Sudden Rx and the Ramsey Transmitter that I bought for \$15.00. Tennessee from Upstate NY and 1 watt. Who says HF is expensive.

72 Brad WB8YGG

From qrp-request@Think.COM Mon Jul 26 12:52:27 1993
Date: Mon, 26 Jul 93 09:50:05 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Super Cmos Keyer II Address

Guys, sorry about not putting the address in previous posting. Here it is.

Richard Rathburn
KB6NQ
R & R Associates
3106 Glendon Avenue
Los Angeles, CA 90034

Cost is \$25 + \$1 shipping. It includes the latest update on the software.

Such a deal... dit dit
72, Doug KI6DS

From qrp-request@Think.COM Mon Jul 26 01:39:07 1993
Date: Sun, 25 Jul 93 22:37:12 PDT
From: dh@deneb.csustan.edu (Doug Hendricks)

Subject: Super Cmos Keyer II Kit

I received my Super Cmos Keyer II kit Saturday from KB6NQ, and I have it built and working. The kit costs \$25, and includes the pcboard, programmed chip, all board parts, 4 switches, 100K pot and a speaker. You must supply the cabinet and connectors. My kit did have a couple of mistakes in the resistors provided. I replaced them from my stock on hand, but it would be nice if you got the correct parts.. But a minor item. I chose to replace the switches provided with ones that I had on hand, they were much easier to mount, as they just needed a round hole, while the ones provided need a rectangular one. The speaker that I got did not work, maybe I fried it when I soldered the leads on, but it was only 1" in diameter and not high quality at all. I replaced it with a 2" radio shack 8 ohm speaker, which works fine.

The kit only takes about an hour to build. But by the time you mount it in your case and dress the leads, plan on an evening. When you finish and have it working, then the fun begins. The keyer is fantastic. Are you ready for the features? Here they are:

- Iambic keyer with selectable dot and dash memories
- Four messages totaling up to 220 characters
- Character and real time message loading
- Timed pauses within messages.
- Messages that can call other messages and contain operational commands
- Message loop capability for continuous play
- Message break in to allow for paddle inserted text
- Input queue to store multiple message activation
- Contest Serial numbering (001-9999)
- Digital and linear analog speed control (6-60 WPM, Messages up to 990)
- Adjustable weighting (dot/dash ratio) of 25-75%
- A built in adjustable sidetone monitor
- A transmitter keydown (tune) function
- Handkey mode
- Compensation for transmitter induced keying distortion
- Selectable automatic character spacing
- Keyer status inquiry functions
- Ultra low power consumption for battery operation

If you want more information, refer to any recent ARRL handbook. The 93 edition has the article on page 29-6. I recommend the KB6NQ kit. For \$25, you can't beat the price. Idiom Press sells the same kit for \$45. I am not affiliated in any way with KB6NQ, just providing information to fellow qrpers.

72, Doug, Oh, by the way, if you haven't ordered the set of schematics from Chuck, do so. They are an excellent edition to your library. I got mine Saturday. Tnx Chuck for your efforts....
dit dit

From qrp-request@Think.COM Thu Jul 1 20:49:26 1993

From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Thu, 1 Jul 93 17:44:22 PDT
Subject: Super Keyer II is still available

There was some doubt expressed earlier on this list about whether the CMOS Super Keyer II form Idiom Press was still available. Their phone number is disconnected, but a letter sent by N7RVD revealed that they are still selling these kits for \$49.

There was also this recent post from INFO-MAC:

If you're looking for a good expensive keyer, I recommend the CMOS Super Keyer II (93 ARRL Handbook, pp 29-6 through 11). Kits are available from Idiom Press, Box 583 Deerfield, IL 60015, for \$45 + \$3 shipping. I'm not connected to Idiom Press, but I've built their kit and installed it permanently in my HW-9. The board is about 1.5 X 2.5 inches with the battery, 4 push-button switches and a pot mounted off board. The push buttons control the memories and some commands. Sending speed may be changed via the pot, memory commands or the paddles. The keyer has numerous commands that are input via the paddles and may be included in memory messages. A very versatile keyer for little \$\$.
(The SA-5010 was \$99 new.)

73, Bob, KU7G

So send 'em you money -- this is a good deal and easy to build too!

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
"We conjure the spirits of the computer with our spells"

From qrp-request@Think.COM Fri Jul 2 02:45:10 1993
Date: Thu, 1 Jul 1993 23:40:07 -0700 (PDT)
From: stark <msswmod@sage.unr.edu>
Subject: Re: Super Keyer II is still available

On Thu, 1 Jul 1993, Kevin Purcell wrote:

> There was some doubt expressed earlier on this list about whether the
> CMOS Super Keyer II form Idiom Press was still available. Their phone
> number is disconnected, but a letter sent by N7RVD revealed that they
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> memory commands or the paddles. The keyer has numerous
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> (The SA-5010 was \$99 new.)
>
> 73, Bob, KU7G
>
> So send 'em you money -- this is a good deal and easy to build too!
>
> Kevin Purcell N7WIM / G8UDP
> a-kevinp@microsoft.com
> "We conjure the spirits of the computer with our spells"

I also wrote to Idiom Press. Asked what the status was. Recieved
a nice letter back in my sase in about a week.

They said that the price is \$48.00 for US addresses or US \$50.00
for overseas orders, postage paid. Payment in checks or money
orders and must be drawn against US banks. No credit cards.
US currency can be sent at the sender's risk.

I will be sending them some money soon. Would have posted sooner
but just got the computer back today.

Installed a CD Rom, sound card, more mem, etc..... Now if I can
just learn how to use it again.....

Ron, KU7Y

From qrp-request@Think.COM Sun Jul 25 17:25:27 1993
Date: Sun, 25 Jul 93 16:25:15 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Swapmeet

Gang,

separate from the previous posting on the MFJ equipment, thought i'd let you know about a couple of other deals in OK.

i took OHR 20 meter QRP rig (the old one) with me, but the ignition noise was too much. 10 meters was dead as a door nail.

at the swapmeet i picked up a KENT iambic paddle kit. went together in 30 minutes or so. nice feel and nice action. see Jeff Gold's previous review. this one might replace the Bencher on the desk. time will tell.

another funny story. i got the kit early saturday. in the afternoon i was walking by the booth and two 12 year old boys were standing there playing with the paddle. that was about the age that i started, so i stopped and asked them if they knew the code. one said yes and he was doing 4 wpm. the other said no, but that he was interested.

so on the spur of the moment i made them a deal. if, withing one year they could do 13 wpm, i'd give them each a \$100 bill. :-)

they took down my name and call and address. later they asked, what if we do it earlier? i said no problem. they will send me copy of VEC for 13 wpm and they'll get the money. :-) that's it for this year for the Chuck Adams CW Proficiency Scholarship fund. :-) the guys were so excited. i think their dad was excited too.....

ok, the other deal. i picked up a like brand new Argosy II from TenTec. with p/s. i guarantee i got a good deal. it has the RF atten. mod and cw filter and it's loaded. haven't fired it up yet. (patience huh?) NO, just gotta get the op postition cleared off after i get back to the house from the office where i'm posting this.

the OKlahoma QRP group was there in force with three tables. bunch of homebrew stuff. good show. saw my OHR Sprint there on display and the 20 meter A&A that i assembled and sold at Hamcom in June. the new owner is gonna hold on to them.

Burl Keeton, N5DUQ/QRP, got his Quarterly, so they are in the mail guys. this is the QRP ARCI Quarterly for July. they are mailed from Alpine TX where they are printed.

i saw some HW-7 and 8s listed for \$100. too high. people think they are valuable now. guess we're gonna get a generation of heath collectors going. hold 'em if you got 'em.....

Corsair I for \$600, but not that clean. Omni A for \$500 and some other odds and ends. nothing exciting. at least for me.....

overall, i had a good trip and i'm going on record: got the W9KNI Dxing Companion book. i'm going to try for 40 Meter DXCC 2W QRP CW. start the clock. date of start, July 25, 1993. monthly reports if you're interested. anybody else want to start too. not necessarily 40, dealer's choice.....

watch out AA2U!! :-)

July 23,1993 0600Z 0 worked 0 confirmed 100 to go.

72 es cul de k5fo dit dit

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Sun Jul 25 16:46:24 1993
Date: Sun, 25 Jul 93 15:46:05 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: SWR Analyzer es Keyboard de MFJ

Gang,

just a quick report on the trip to "Ham Holiday" the swapfest in Oklahoma City OK. somebody has to drive north on I35 aperiodically to make sure the Red River is still there and i'm here to report that it still is. :-)

i just went up for Saturday, which was long enough for me to part with some of my money.

i had reported last year on the net, when there was flame wars going on for MFJ products. i don't think that i'll ever learn. i'm already educated beyond my intelligence anyway.

MFJ-451 Morse Keyboard - A Review by Chuck Adams K5FO

i normally use either a Heath Ultrapro Keyboard or when i'm

practicing on the Bencher i use an AEA MM-3 or CK-2 keyer.
the heath is losing one of the memory chips for the 10 memory buffers and i hadn't taken the time to fix it, so i saw the MFJ-451. thought, what the hey, it was reduced i'll just buy one. replace the large AT keyboard with the small one i have on a 386 and take up less space (vertically) on the operating desk.

the MFJ-451 keyboard has an unmodified keyboard (AT type) that plugs into a small box (sorry, i'm at the office and don't have the exact size). got it home, opened the box, plugged it in, and it worked outta the box. didn't even have to read the instructions. only two parts and parts is parts, right?

ok, get the instructions, get through them in short order and know how to set the speed, load the two buffers, adjust the tone (the volume controlled with a knob on the little processor box), learn to program the beacon operation up to 99min 99sec delay, and use the serial numbering in time to use it for SS. :-)

ok kids, so far so good. fire up the QRP rig on 40 for the sunday morning schedule and call cq. get another qrp in st louis mo. worked about 20 minutes at 30 wpm and stood by for the group. no answer and the other guy signs.

fine. so far so good. ok, 40 not all that hot, let's go up to 30 (another fine QRP band). WHOW BUCKAROO!! it is very very obvious that noone at MFJ works 30 meters. this little keyboard sucks canal water when it comes to putting out trash on 30 meters. it's S9+ and then some. i can't hear the digital guys above 10.110 with this thing on. ;-)

ok, look at the schematic. uses 80C32 Intel processor clocked at ***10 MHz***. only decoupling caps in the system are four 0.1uF caps. bad news. ok, i'll help, give me phillips. two screws to the case and its apart. hey, nice little board, double sided silk screened plated through solder masked. not bad. ok, three more screws to remove board and a model airplane prop-nut driver to remove volume control nut. board comes out and i turn it over. GEEEEZ!!! we have 12 year olds learning to solder here or what? the second worst soldering job in the world that i've seen. you guessed it the first place is the MFJ-249 HF/VHF SWR ANALYZER. see second half of this posting.

i take pride in my work, no matter what it is, and i'd think that others do too. component leads were not cut short and overlapped PC board paths and on and on i could go, but i won't.

it works, but once again, bad quality control for cosmetics. if it works, ship it!!!

if you plan on working 30 meters, do not (and i repeat) do not buy this keyboard until you hear from me that they got the problem fixed. i thought that i'd play with some ferrite beads strategically placed, but no way am i going to spend my valuable time doing this. going to call them on monday and ship the little box for a revision. or else.

i didn't pay the \$89.95 list price and got a good deal, but not that great.

MFJ-249 HF/VHF SWR ANALYZER - A Review by Chuck Adams K5F0

this is the deluxe swr analyzer by MFJ. list price of \$199.95, which of course i didn't pay at the swapmeet. :-)

i had asked the qrp mail group about these and got a response after the fact and as it turns out, i made the right decision. we all get lucky once in a while.

MFJ has another analyzer MFJ-207 which is the same without the frequency counter. i have a heath counter, but i prefer to put all my eggs in one basket and have a small self-contained unit like the 249. once again, outta the box, hook up 12V supply and fire it up. worked first time every time. hook it up to the 80 meter long wire and check it out. GREAT. with the digital readout for frequency and the analog meter for direct reading SWR, it's very easy to see where you are and how good the antenna is doing. checked all the bands from 160 to 10 Meters. i had my previous settings from measurements made at 1 watt with Oak Hills QRP wattmeter. they were correct (of course). but, the MFJ makes it very easy. none of the forward vs backward, etc. just read it and weep or smile.

one of the questions i asked the friendly sales rep was how much does this little puppy put out. it obviously must generate rf to the antenna to get the swr. he didn't know and the MFJ manual does not say one word. so, couple of pieces of RG58U with PL259s and in goes the OHR QRP WM-1 meter. 2mW (that's 2 milliwatts) out from 1.8 to 170MHz. constant and true. good news as that is the requirement to not have an adjustment for meter calibration. i wouldn't part with the OHR for love or money. need it for power measurements for 10 W down to 1 mW.

i assume, since the MFJ-249 device transmits outta band (i did this into a dummy load guys and girls and FCC) i assume that it is

type accepted or something like that. being an avid QRPer, i know what 2 mW can do when the bands are right. and outside of the ham bands you can easily get a clear frequency. ;-)
that why the HT mods i see posted here in rec.amateur.radio.misc?????

frequency meter is accurate as tested with heath counter and 3.600000 output from the wwv clock. without the counter (the 207), MFJ put dial with freq markings and i understand from another individual that has one, they aren't all that great. not good if you're tuning an antenna from phone down to cw band or whatever.

ok, let's look at the schematic? what, no schematic in the booklet or box!! ok, take the back off. BIG mistake big mistake (line from Pretty Woman, the movie). the worst soldering job i've seen. tied with MFJ-815B Cross-Needle 1.8-60MHz SWR/Wattmeter. close behind is the above keyboard system. somebody in QC outta work on this or start selling them as kits. i can do a better job easily.

the counter is SMT (surface mount technology and i assume it was wave soldered) and separate from the badly soldered board. another board also SMT and wave soldered for RF generator. at least i hope so. i didn't want to see any more and put it back together.

so, final results. MFJ-249 SWR Analyzer. good deal. MFJ-451 keyboard is a bad bad idea. wait til Christmas or later on this keyboard. both are new items and maybe with feedback we can get MFJ to do a little better.....

73 es 72 de k5fo dit dit

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Jul 27 20:22:18 1993
Date: Tue, 27 Jul 93 19:22:06 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Table of Contents QQ July 1993

Gang,

someone asked that i post the table of contents. i'll take a stab at it ----

Technical

Double-Url Pleasure by Jeff Glissmeyer, WK7D - two band version of W7EL rig

The QRP "Cannon", a Resonant Speaker for CW by Danny Gingell, K3TKS

Effects of Wire Size on Toroid Inductance, Part II by Mike Czuhajewski, WA8MCQ

Easy CW Filter for TenTec 505/509's by Larry East, W1HUE

Experiments with the MFJ Antenna Bridge by John Stanford, NN0F

"ZRO" QRP Satellite Receiving Tests by Mike Czuhajewski, WA8MCQ

Antennas

Another Attic Antenna by Jack Cleary, WN2Q

Operating

More QRP Satellite Work, Part I by Mike Czuhajewski, WA8MCQ

Meet the G-QRP Club

Letters to the Editor

Awards by Bob Gaye, K2LGJ

Members' News by Richard Fisher, KI6SN

Reviews

RF Circuit Design Book by Mike Czuhajewski, WA8MCQ

Kenwood TS-50S by John Mori, N8MUU

FAR Circuit's Curtis Iambic Keyer by Skip Davis, NC90

Oak Hills Research Switched Capacitor Filter by Chuck Adams, K5FO

Oak Hills Research QRP Wattmeter by Chuck Adams, K5FO

that should kinda give you some idea. QQ is 40 pages each issue. that is, as long as the membership continues to write articles. some on this group might consider doing so. you guys and girls are sharp. they take pictures also. (reminder, where are the ones you're sending me?) :-) ;-)

again, hope i didn't make too many mistakes. any errors are my typing skills are lack thereof. used to do 88 wpm (UIL Class B champ before most of you were born 195?) left as exercise for the student.....

ok, enuff already. i'm gone. got 95 more countries to go on 40M CW QRP DXCC award..... dit dit

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Fri Aug 20 15:12:23 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Ten Tec Scout 555
Date: Fri, 20 Aug 93 12:46:38 EST

There's a picture of the Ten Tec Scout 555 on page 160 of the September QST.

Jim, WD9EYB

From qrp-request@Think.COM Thu Jun 24 13:27:45 1993
From: lbrunson@rodgers.rain.com
Date: 24 Jun 93 10:09:14 PST
Subject: TEN-TEC SCOUT low price?

| LOW PRICE: At \$495, its closest competition is nearly twice the
| price. No other rig offers so much performance at so low a price.

Let's compare apples to apples. To add 8 more bands to get full ham band coverage (not even general coverage rx) you must add \$200 to the above mentioned price.... not to mention the space they consume... looks like 8 more modules would take the same pannel space as the scout itself... I don't know how deep the modules are so can't comment on the actual volume.

Oops, 10 meters only goes up to 29 MHz so don't listen to the FM guys (you can't anyway... no fm mode) and don't listen to the AM guys up there

either or the RS satellites.... but this is back to basics.

Only 1 sideband per band... is that right?

Optional noide blanker for how much?

Is the microphone really an optional acce\$\$ory as the spec sheet implies?

For the money, I suppose I could find a \$700 (ok, \$695) radio that has more features, twice the output power (oops this is the qrp list) available, and doesn't come appart in 10 parts when I want to carry the whole thing.

I am sure the scout has it's place... Maybe for the guy who only opperates one or two bands. Yea, the thing can fit in your briefcase but what about the battery or other power supply? It requires 600 ma to receive, remember.

I have heard alot of hype about the scout but let's compare apples to apples.

Flames to bit-bucket@rodgers.rain.com

Lowell Brunson (503) 681-0417
Rosenet: lbrunson@roland.co.jp
Internet: lbrunson@rodgers.rain.com (preferred)
lowell@techbook.com
Packet Radio: KC7DX@K7IQI.0R.USA.NA

From qrp-request@Think.COM Thu Jun 24 14:08:48 1993
Date: Thu, 24 Jun 1993 14:08:19 -0400
From: Scott Cranston <cranston@zk3.dec.com>
Subject: Re: TEN-TEC SCOUT low price?

How is the new Atlas radio... its in the price range of a Scout with all the extras. The old Atlas radios were very nice, I think they are anyhow.

Scott, KB1NW

From qrp-request@Think.COM Wed Jun 23 19:23:27 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 23 Jun 93 16:18:02 PDT
Subject: TEN-TEC SCOUT Model 555

TEN-TEC SCOUT Model 555

Back to Basics - With Real Performance

SIMPLE: SSB or CW, just sit down and operate! Master every feature in a few minutes - no modern rig is as easy to use. Simply plug in the desired band module and work any band 160-10 meters including WARC.

SMALL: At half the size of other "small" transceivers, SCOUT makes mobile and portable operation a cinch. This travel companion even fits in a briefcase. Try that with other HF rigs!

SELECTIVE: Revolutionary, patented "Jones" filter. A variable bandwidth 8 pole crystal filter from 500 Hz to 2.5 KHz. The right filter for every band condition at the turn of a knob. No need to buy expensive accessory filters.

POWERFUL: 50 watts output is enough power to work the world, even for a new ham. And power to spare for the skilled amateur. Runs directly off 12 volts, even the cigarette lighter in your car for easy installation.

SMART: TEN-TEC's exclusive "FLS" frequency lock system keeps VFO virtually drift free regardless of temperature variations. THE "RISC" microprocessor running at 5 MIPS also manages the large digital display and built-in iambic keyer.

LOW PRICE: At \$495, its closest competition is nearly twice the price. No other rig offers so much performance at so low a price.

SCOUT is "back to basics" and redefines value for the active amateur yearning for a second rig or the new ham searching for an affordable way to experience the world of HF communications.

FACTORY DIRECT \$495.00

Additional Band Modules: \$25.00 each

SCOUT ACCESSORIES:

Model 801, 160 meter plug-in band module

Model 802, 80 meter plug-in band module

Model 803, 40 meter plug-in band module

Model 804, 30 meter plug-in band module

Model 805, 20 meter plug-in band module

Model 806, 17 meter plug-in band module

Model 807, 15 meter plug-in band module

Model 808, 12 meter plug-in band module

Model 809, 10 meter plug-in band module (28.00-29.0 MHz)

Model 937, Power Supply - Matches SCOUT, 115 VAC, 60 Hz input. 13.8 VDC, 11 amp output @ 50% duty, 7 amp continuous. DC output binding posts, Fold-back current limiting, over voltage protection.

Model 297, Noise Blanker, effective on ignition and some impulse type line noise, field installable.

Model 296, Mobile bracket mounts on top or bottom of transceiver in 4 positions.

Model 607, Weighted key paddle, single paddle style with adjustable spacing.

Model 700C, Handheld mike, electret with coiled cord and 4 pin connector.

Model 291, 200 watt antenna tuner, "T" match circuit matches variety of unbalanced antenna systems.

GENERAL SPECIFICATIONS:

MODES: CW, LSB, USB (Normal sideband for the band in use)

FREQUENCY RANGE: All ham bands 160 through 10 meters available through plug in modules. Overshoot at upper and lower edges.

DISPLAY: 4 digit to 100 hz resolution, .56" LED

FREQUENCY CONTROL: Permeability tuned oscillator (PTO) mixed with a crystal oscillator for each band.

OFFSET TUNING: +/- 1 KHz nominal - receive

FREQUENCY ACCURACY: +/- 100 HZ @ 25 deg. C

ANTENNA: 50 ohms unbalanced. POWER REQUIRED: @12-14 VDC; 600 mA receive, 10 A transmit @ 50 watts out, 4.5 A @ 5 wats out.

CONSTRUCTION: G10 epoxy glass boards, most field replaceable. Molded plastic front panel, aluminum chasis, steel top and bottom.

DIMENSIONS: HWD 2.5" x 7.25" x 9.75" - 6.4 x 18.4 x 24.8 cm

WEIGHT: 5lbs, 3 oz - 2.4 kg

TRANSMITTER:

RF OUTPUT: 50 watts, ALC controlled internal adjustment to reduce power.

DC INPUT: 125 watts maximum @ vt 0% ducle r te.

MIH INT 2 5oact rosw 5
6db)tpuolingevfirtet
SWNGT onB, oW

CKR:sta 50 W. C tyB lixi

CFFS

TE S Weeani
ET: notoolesfr
ERPRN:-4t

TDE - tla5 Kon
HORDEITERM:lowtwo n wasPE

EEENI.tya0d4bndwidth.

SELECTIVITY: "Jones" 8 pole crystal filter front panel adjustable 500 Hz to 2.4 KHZ

DYNAMIC RANGE: 85 dB @ 2.4 KHz bandwidth at 20 KHz spacing.

THIRD ORDER INTERCEPT: +1 dBm

NOISE FLOOR: -126 dBm typical

S-METER: Calibrated for 50 uV at S9

I-F FREQUENCY: 6.144 MHz

NOISE BLANKER: Optional plug-in board

AUDIO: 1 watt @ 8 ohms with less than 2% distortion

SPEAKER: 3 inch

Made in USA

...America's Best! TEN-TEC 1185 Dolly Parton Parkway Sevierville,
TN 37862, U.S.A. Orders: 800-833-7373 Office: (615) 453-7172 Fax:
(615) 428-4483 Repair Dept.: (615) 428-0364

From qrp-request@Think.COM Wed Jun 23 19:33:07 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 23 Jun 93 16:26:11 PDT
Subject: TEN-TEC SCOUT Model 555

The note I posted (I got it off INFO-HAMS -- I forgot to mention that).

In previous posts it had been said that the band modules cost \$225 each, but here it says \$25. This is much more reasonable!

I note that for an all band rig (160 thru 10) we have 9 bands @ \$25/band gives \$225 + \$500 for the all band version. Perhaps that's where the \$225 figure came from.

I also note that it uses a PTO rather than a PLL -- old reliable and low phase noise. Anyone know anything more about its front end design?

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
"We conjure the spirits of the computer with our spells"

From qrp-request@Think.COM Wed Jun 30 16:04:55 1993
Date: Wed, 30 Jun 1993 15:00:34 -0500 (CDT)
From: "Kevin L. Anderson" <kla@helios.augustana.edu>
Subject: TenTec PowerMites

I'm new to group, so please forgive me if older TenTec's like the PowerMites were recently discussed.

How were they? Any around to be had or recommended to be used? All I have read is an old advertisement I found in the back of the early '70s ARRL "How to become a radio amateur" book.

kevin (no call yet, waiting on FCC)

* * * * *
* Dr. Kevin L. Anderson, Geography Dept., Augustana College *
* Rock Island, Illinois 61201 USA phone: (309) 794-7325 *
* e-mail: kla@helios.augustana.edu or gganderson@augustana.edu *
* * * * *

From qrp-request@Think.COM Wed Jun 30 19:05:17 1993
Subject: Re: TenTec PowerMites
Date: Wed, 30 Jun 1993 16:01:53 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Kevin asks about (older) Ten Tec PowerMites.

I have experience with the PM3A, the 40 / 20 meter 5 watt transceiver.
It had a Direct Conversion receiver, sensitive, but not selective. There
was an optional passive audio filter sold for it, and it did a reasonable
job, but rang pretty badly.

The PM3A ran on 12 volts, of course, and had a meter for tuning up. There
was a tuning procedure - not like most transistorized rigs that are ready
to go when you move frequency. It was no real hassle, though. The
tuning dial was very rough, no calibrator, so you have to watch band
edges. The QSK worked very well, I recall being quite impressed - the
rig I had come from was a Heathkit HW-101 (semi break in keying). I
suspect I did all this back in about 1972 or 73. Got me into QRP ARCI
back then, hence my low number (BUT, QRP ARCI then stood for the principle
that we should all run under 100 watts input power, if I recall
correctly.....! I was QRPp at 5 watts.)

I ended up working a LOT of my time with the PM3A. I really enjoyed it.
If my memory serves me well, it compares with the HW7 and HW8, as I
remember them, however, the PM3A can be had for less money at swap meets.
(It has fewer bands and is older).

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
Safety Critical Software Group home:
Department of Info. and Computer Science 1514 Verano Place
Irvine, CA. 92717 Irvine, CA. 92715
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Wed Jun 23 10:40:21 1993
Date: Wed, 23 Jun 93 09:58:45 EDT
From: epacyna@auratek.com (Edward Pacyna)
Subject: Test Equipment - For Sale

Trio (Kenwood) DM800 dip meter. Covers .7 to 250 Mhz in 7 ranges. Solid state
powered by 9V battery.....\$50.00

Design Mate 3 R/C bridge. Measures R and C values in the following ranges.

R	C
10 - 100 ohms	10 - 100 pF
100 - 1 K	100 - 1000 pF
1 K - 10K	.001 - .01 uF
10K - 100K	.01 - .1 uF
100K - 1M	.1 - 1 uF

Set a range, turn knob for null condition and read value off calibrated dial.

Compact (approx. 8"w x 8"d x 3"h) AC powered.....\$25.00

Reply by email ed@auratek.com uunet!auratek.com!ed

From qrp-request@Think.COM Wed Jun 23 23:14:25 1993
Date: Wed, 23 Jun 93 23:14:15 EDT
From: majewski@erim.org (Ron Majewski)
Subject: Test Equipment - For Sale

Edward-

I'll give you \$50 for the dip meter if you'll include shipping (and
assuming it's still available.

Thanks!

Ron (wb8ruq)
majewski@erim.org

From qrp-request@Think.COM Sun Jul 11 11:33:41 1993
From: majec@cactus.org (Majec Systems)
Subject: test to list
Date: Sun, 11 Jul 93 10:13:45 CDT

From qrp-request@Think.COM Tue Aug 24 15:23:51 1993
Date: Tue, 24 Aug 93 14:23:30 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: testing

this is a test. i think that qrp@think.com is still working. just
no traffic.

i got the september issue of QST last nite and wow!!

Jeff, AC4HF got a real nice article in the new ham section. including
his picture and his son Danny and some of his goodies, like the HW9 and
the OHR Spirit. good job.

also a picture of the famous Jim Kearman, KR1S. scared me when i
first saw it. thought that was a Hallicrafters T0 keyer instead of
the VFO. :-) Jim, too neat a setup. real hams can't get to the
desk to operate much less see the rig..... of course we all know
that's not how it looks before and after the photo was made.

Randy, look at page 109 (AA2U). maybe he can tell us all the ten
flags. the IC-707 looks like a real neat rig. noticed that there
wasn't a price tag. is this going to compete with the TenTec scout?
9.4 x 3.5 x 9.4" isn't too bad a size for GC rcvr and all the ham
bands and power adjustment on the front panel. anyone seen this
critter?

72 de k5fo dit dit

i think we've just slowed down this week..... ;-)

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Mon Aug 16 14:29:10 1993
Date: Mon, 16 Aug 1993 13:29:32 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: Texas II

Well,

the review sounded great.. after building and testing many a QRP.. you better bet your bottom dollar I WOULD NOT spen \$160 for a DC receiver. There are a bunch of good Superhets available for that price.

Wonder if Chuck ever got his version I going. As far as a remember it was the only kit I can recall him saying didn't work.

BEWARE DC receiver. I had a great time with mine.. it is a big challenge compared to a Superhet to use.

72

Jeff

From qrp-request@Think.COM Thu Jul 22 21:19:51 1993
Date: Thu, 22 Jul 93 20:19:37 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: the winner is

Michael Stein, one day delivery!! it's a miracle.

what do you think michael? about the schematics es info?

gl es cul de k5fo dit dit

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

From qrp-request@Think.COM Tue Jul 6 11:25:24 1993
From: mvjif@mvubr.att.com
Date: 6 Jul 93 12:59:00 GMT
Subject: Things that never were ?

Wayne, N6KR discussed Heathkit rigs that never were (seen ?).

Two years ago Heath was selling the last remnants of their kit stuff at Dayton, and in the junk pile there was what looked like a prototype HW-7 or HW-8. Amazing to see how close the rig looked mechanically to the end product. Somebody probably bought it.

A sort of successor to the HW-9 may have been the HW-99. I have one, and it works. It has ample audio and selectivity (the xtal filter works). It has only 4 bands, 80, 40, 15, 10m and is called a novice transceiver. When I use it, it works great, but I feel that something is missing (RIT, 20meters, S+/SWR meter). It is too simple. It does have a built in power supply and 50 watt PA.

If you are looking for a nice performing 4 band superhet cw rig for that beach cottage or camp, I have seen these for less than 1/4 the going price of an HW-9.

72, Jim - W1FMR mvjif@mvubr.att.com

From qrp-request@Think.COM Tue Jul 6 12:30:57 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Tue, 6 Jul 93 09:29:51 PDT
Subject: RE: Things that never were ?

One thing that suprised me while trying to come up with modifications to the HW-7 (I have a 7 and an 8, but still haven't managed to snag a 9 yet) was what an terrible design it was EVEN for the early 1970s. They could have copied the Wes Haywards diode DBM direct conversion design (published in 1965 QST?) and had vastly better receiver for no increase in production costs -- perhaps even made it cheap. I think they went for the fashionable (at the time) 40673 and CA3035 for no particularly good reason. The TX is almost as bad -- with random offsets on each band. Everytime I reread Ade Weiss' 1970s writings in the QRPp column in CQ and in the Milliwatt I am constantly amazed what those folks did with the HW-7 and the PowerMite rigs. Maybe it forced you to be a better op!

But this is all 20-20 hindsight. Very few people were thinking about RX performance in the way we do today.

The HW-8 is far better, but why did they leave out an RIT -- didn't they learn anything for the HW-7!

The HW-9 again was a big leap. Using DBMs and a superhet design in the same size box as the 7 and 8 showed some genius but they still spoil the ship for a ha'peth of tar -- a mediocre response and poorly matched xtal filter. Unreliable injection levels in the product detector, poor receiver muting, drift which varied from model to model. Take a look at the HW Handbook or QQ or SPRAT for the various solutions to these problems and others.

The HW-10:

- * would be in the same size box as the earlier models
- * would have SSB but no speech processor
- * would have a commercial 2.4kHz filter, but wouldn't have a narrow CW filter (most would appear soon after to add this).
- * would have a built in keyer as an option
- * would have a similar RX design to the HW-9
- * would have a similar TX design to the TenTec QRP rigs (broadband drivers and final)
- * would have a single regular VFO (not PTO or PLL)
- * would have been \$400 or so
- * would have moved to a two board design to fit more in the same space
- * would have been bought by a few hard souls
- * would still be sought after today :-)

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stultie!

From qrp-request@Think.COM Thu Jul 1 15:11:59 1993
Date: Thu, 1 Jul 1993 12:16:02 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: Things that Weren't

Having used an HW7, -8, and -9, I thought it would be interesting to imagine what Heath might have done as a successor to the -9. What would the specs be? What would Heath have called it? Should someone build it?

Another question, no less interesting, is what WOULD an "HW6" have been like, had there been one?

Just imagine coming upon either of these rigs at your flea market of the mind. A fine price they would fetch, no doubt!

72 from way out in left field,

Wayne, N6KR

Wayne Burdick
wayne@interval.com
(415) 354-0928

Interval Research Corp.
1801-C Page Mill Road
Palo Alto, CA 94304

From qrp-request@Think.COM Tue Jul 27 20:41:30 1993
Subject: Tinkering delights....
Date: Tue, 27 Jul 1993 17:36:17 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

As you all may already know, I picked up a Ten Tec OMNI-D series C (the later model - a much improved Triton IV) for a basic swap (a TS 520). I am happy with the deal, got break-in CW, 160, WARC, more filters, digital display, notch, zero beat button, and way lower current drain for 12 volts. I lost the pi-net tank circuit of the 520 (little need for antenna tuners). It was a \$300 value deal.

Anyway, it is very simple to run the ALC down for QRP operation. The rig is a bit large by today's standards, about the same size as the 520 was, but a lot lighter. There is a relay used in the QSK and you can hear it, but it is no real problem. There is also a relay for amplifier operation, and I need to disconnect it. It drifts a bit for the first hour, but then it is rock stable. The display (frequency counter, I think, but I have yet to see the manual promised to me) is large and friendly, but the last digit will not be stable when the counter is on the borderline.

Now, the receiver is "quiet", and I finally understand the term a bit better than I used to. When I am up on 15 or 10 and the atmospherics are down, and I tune in a weak one with the OMNI and my TS 440, I can tell that the OMNI pulls the signal out a bit cleaner. Only a bit, but I can notice.

On to my point. I believe that there were not a lot of these radios sold, or else the owners hang on to them. Don't see them for sale that often. That means potential bargains at swap meets.... Using the radio for the week convinces me that I got a helluva radio for \$300. It has 8 pole crystal filters for 2.4 and 0.5 Khz, and audio filters for 1.8 and 0.5. The combination of these two with the notch does a real fair job for CW selectivity.

The inside of the radio is clean, neat, removable boards. Discrete

components for the most part. Fixable, real fixable. There is a LOT of room inside the cabinet, topside and bottom, and I think I will be putting a CMOS super keyer inside, maybe a little speech processor (I frequent QRP SSB on 40 especially), and who knows all what could go in there. There is plenty of room there where the crystal filters go for extra filters if I wanted to. I may put in an extra 8 poles at the 2.4 range for SSB, but I think I am OK with the CW filtering.

Anyway, wanted to let you all know, if you are so inclined, that the OMNI-D is a good old rig, but not so old that you will miss a lot. In fact, the receiver is pretty quiet because of the older PTO technology. It still has really good filtering, fine QSK, and has plenty of room for playing around to customize it. (Not that I have much time for that, I am trying desperately to define my Ph.D. dissertation topic this month and perhaps the next few - anyone know how to do it?) SO.... if you are looking for such a thing, I heartily recommend it.

Chuck, how do you like your Argosy? I believe it is the compact version of this monster.

72

Clark

.....

Clark Savage Turner, Graduate Student Researcher
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(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.
Admitted to practice law in California, Massachusetts, and New York.
ARRL Volunteer Counsel

From qrp-request@Think.COM Fri Jul 23 13:53:07 1993
Date: Fri, 23 Jul 93 13:52:59 EST
From: jennings@abb.com
Subject: Re: TNC net?

Hello Chuck,
What is the TNC net and what is itstime and freq?

TNX es 73

Tom Jennings KV2X
jennings@abb.com

From qrp-request@Think.COM Mon Aug 16 22:33:27 1993
Date: Mon, 16 Aug 93 22:26:47 EDT
From: robert penneys <penneys@freezer.cns.udel.edu>
Subject: Tnx-wnt to subscribe

Tnx for ideas on A&A. Will keep you informed.

Meanwhile, I want to subscribe to this forum. Sent mail to qrp-request but no action.

Tnx agn. Bob WN3K FRC

From qrp-request@Think.COM Thu Jul 1 16:41:00 1993
Date: Thu, 1 Jul 93 15:40:48 -0500
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: toggles vs. slides

Toggle switches win hands down over the slide. the only reason for the slide is to prevent accidental state change and they are cheap. very cheap. more machine work to install also somewhat of a disadvantage.

95% of the survey said they were for toggles and use them regularly. the minature ones that OHR and others use are not out too far from the front panel anyway.

thanks for the replys gang es cul,

"This is UNIX(tm)! I know this." - Lex in Jurassic Park in front of SGI workstation.

Chuck Adams, K5FO - CW spoken here....70+ wpm
adams@sgi.com

From qrp-request@Think.COM Mon Aug 2 09:45:49 1993
Date: Mon, 2 Aug 93 09:45:40 -0400
From: Gary Bishop <gb@cs.unc.edu>
Subject: Tokyo Hy-Power HT-750

Does anyone have experience with or comments on the Tokyo Hy-Power HT-750 rig I see in the current CQ on page 129? The ad claims

World's First!

3 HF Bands in ONE Handheld

Enjoy operating 7, 21, and 50 MHz SSB/CW with the HT-750. Now you can truly take HF with you anywhere! Many features include:

- * 3W Out on 40M and 15M
- * 2W Out on 6M
- * Digital Readout
- * Noise Blanker
- * Internal CPU Controller
- * RX Preamplifier
- * RIT Knob
- * S-RF Meter
- * Uses Common Batteries
- * Size 2.5(W) x 7.4(H) x 1.8"(D)

The ad was placed by Orion Business International, Inc.

Anybody seen/used one of these?

72, gb wa4fut

From qrp-request@Think.COM Mon Aug 2 21:06:13 1993

Date: Mon, 2 Aug 93 21:05:33 -0400

From: comas@dwcu03.nyo.dec.com (andrew comas)

Subject: Re: Tokyo Hy-Power HT-750

I send away for info on the HT-750 and got a Japanese flier with some english translations splattered about. The price is \$599 for the unit, \$13 for the base ant., \$35 for the 7 Mhz coil, \$24 for the 21 Mhz coil, and \$16 for the 50 Mhz coil. It seems you must change coils if you change bands.

40m is 7.0 - 7.299 Mhz

15m is 21.0 21.499 Mhz

6m is 50.0 - 50.499 Mhz.

Only takes 8 AA batteries (Ni-cd's are ok)

Current Consumption 100ma Rx, 1.5 Amp Tx (max).

Weight: 1.8 lbs with batteries.

Rx Type: Single Conversion

Rit coverage +/- 0.5 Khz

Audio Output : 0.8 watts (with 10% distortion)

BNC-type Ant connection.

Separate Mic and speaker built in (with separate jacks)

CW Keying connector

Separate DC power plug (but you must switch between battery or external)

RX pre-amp is switchable on/off.

Frequency Lock switch.

(in addition to what was listed in the first message)

It seems like a lot of money for SSB/CW on three bands. And I didn't like the layout of the HT. The company is selling these through dealers. You can write to Orion Business International, Inc.
360 W Bedford Ave. Suite 111
Fresno, CA 96711
for the flier.

The usual disclaimers.

Andrew KF2JH

"Opinions expressed are not necessarily those of the author, nor Digital Equipment Corp nor any one else for that matter."

From qrp-request@Think.COM Wed Aug 25 14:21:37 1993
Date: Wed, 25 Aug 93 14:16:18 EDT
From: klaudon@PICA.ARMY.MIL
Subject: Tuner suggestions?

Sorry, qrp and boatanchor readers, this message is only peripherally related to either topic. But you folks have a lot of good things to say, and I could use some advice/war stories.

I am traveling to Orlando (2nd time in 2 weeks) next week (30 Aug) and will be trading in a piece of gear at AES. I am in the market for an all purpose antenna tuner. Seems like MFJ is the big mfr out there, and besides, AES sells them.

I will be getting approx. \$ 125 trade-in credit. I don't want to spend a heck of a lot more. I plan to do some playing around with random wires, center and end-fed, balanced lines, etc. I want to run 100-200 watts CW/SSB, boatanchor CW/AM, and also QRP when I get/build a rig for this.

I have always loved roller inductors (still have a breadboard tuner that I built years ago that uses one) but these models are \$\$\$\$.

Any ideas? Are the MFJ non-roller inductor units (like the 300 watt model) adjustable enuf for good matching to "anything"? How is the SWR/wattmeter, dummy load, balun? I do remember hearing that these units often need to be gone over to eliminate cold joints and loose connections. Any war stories?

Will be QRT by 1600 this Friday.

73, 72, all.

Kalman <klaudon@pica.army.mil>

From qrp-request@Think.COM Wed Aug 25 15:25:53 1993

Date: Wed, 25 Aug 1993 12:25:24
From: hlester@as.arizona.edu (Howard Lester)
Subject: Re: Tuner suggestions?

klaudon(?) asks about the MFJ tuners....

KR1S, should I tell him?

I have the MFJ-948 (no dummy load - or is that no, dummy - load!) and it's actually pretty good, ONCE YOU REPLACE THAT MINIATURE INTERNAL BALUN WITH SOMETHING HEFTY. I suppose it is designed to handle maybe 600 ohms max, and my center-fed "zepp" probably presents it with at least several thousand ohms. So, I replaced the balun with my own. I glued two FT-140-61 Amidon cores and wound 16? bifilar turns of #18 thermaleze wire on it. Works FAR better, now, and even far better than when I had tried a Radio Works Remote Balun (\$28.50 lost to an experiment).

Per KR1S' instructions, I wound as many bifilar turns on these big cores as was wound on the original balun in the tuner. I think it's 16.

Howard

From qrp-request@Think.COM Wed Aug 25 17:19:29 1993
Date: Wed, 25 Aug 93 17:14:20 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: Re: Tuner suggestions?

> I will be getting approx. \$ 125 trade-in credit. I don't want to spend
> a heck of a lot more. I plan to do some playing around with random wires,
> center and end-fed, balanced lines, etc. I want to run 100-200 watts
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>
> I have always loved roller inductors (still have a breadboard tuner that
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> adjustable enuf for good matching to "anything"? How is the SWR/wattmeter,
> dummy load, balun? I do remember hearing that these units often need to
> be gone over to eliminate cold joints and loose connections. Any war
> stories?

There are always war stories! I have been using an MFJ 949B Deluxe Versa Tuner II for about year or so. Bought it used, at a hamfest, for \$30.00. Used it with a 135' dipole, fed with 450 ohm twinlead, on 75, 40, 20, and 15.. Rig was my TR-4C.. Results were good. Also used with a Rat Shack HTX100 and a 10m vertical dipole. Again, results were good. Power readings are within specs stated in manual. SWR

bridge works. I am not overly impressed with the dummy load or the balun. It was worth the 30 bucks but, I like my MN-2000 better!

Opinion: If I already had a roller inductor, I would spend my money on a good SWR bridge, a cantenna type dummy load, maybe a good balun, a coax switch and a dozen PL259's. That ought to almost eat up \$125 and would provide the same capability and much more flexibility. With a couple of variable caps, you can wire up your inductor as a T-network tuner and duplicate the MFJ...

Other options (if that money is burning a hole in your pocket) would be a Drake Mn-4, or MN-2000.. These are pi-network tuners with a wattmeter and SWR bridge..

I'm sure our compadres can come up with some additional comments.

Which way will you be traveling? There is a hamfest in Madison, Ga, on Saturday.

>

73,

Larry KQ4BY

From qrp-request@Think.COM Tue Jul 13 09:53:38 1993
From: dchen@NSTDC.nthu.edu.tw (Daniel Chen)
Subject: unsubscript me
Date: Tue, 13 Jul 1993 21:54:46 +0800

Please remove me from qrp mailing list. Thanks..

From qrp-request@Think.COM Thu Jul 29 07:51:15 1993
Date: Thu, 29 Jul 1993 09:37:39 MDT
From: "Dick Hissink" <dihi@bsdihi.atr.bso.nl>
Subject: unsubscribe

Pitty the mailinglist is mainly US orriented, and so many people mail articles that are useless. Also had a lot of fun reading some good articles.

for now, pleas unsubscribe me from the QRP mailinglist.

Thanks,

Dick PA3DSP

--

Dick Hissink PA3DSP
Email:dihi@bsdihi.atr.bso.nl

From qrp-request@Think.COM Thu Aug 19 15:01:43 1993

From: James Ray Harper <jrh@owl.net.rice.edu>
Subject: Unsubscribe
Date: Thu, 19 Aug 1993 14:01:34 -0500 (CDT)

I'm sorry to send this message to the list, but I need to unsubscribe.
Thanks for taking me off of this list.

Jim/KB5CTQ

From qrp-request@Think.COM Thu Aug 12 09:59:39 1993
Date: Thu, 12 Aug 93 9:56:55 EDT
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: VHF Activity

2M SSB was very busy last night. Many stations were on trying to work meteor scatter. I heard 3 stations around 0300z in the following grids: EN34, EN35 and EM31. Signals were weak and the local QRM was tremendous. Lots of space on VHF don't know why they don't spread out more. There was also a very good tropo opening to the south and I worked WA2TOP in FM25, Cape Hatteras from my QTH in FN20 in Northern NJ. I was using 4 watts PEP into a 7 element yagi. He was using 10w PEP into 11 ele. Stations in FM26 were also worked QRP on 2m and 432MHZ. They meteors were much less than everyone expected with all the hype beforehand. Kind of like Halley's Comet...

Randy Rand
rrand@PICA.ARMY.MIL

From qrp-request@Think.COM Sun Aug 22 16:44:17 1993
Subject: Want Ten Tec OMNI elmer / help!
Date: Sun, 22 Aug 1993 13:39:31 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Anyone out there familiar (or want to become familiar) with the older OMNI? I have an OMNI-D series C, the precursor to the Corsair. I am having some funny (read: hard to diagnose) problem that is driving me completely nuts.

Briefly, I have 50 db less receive on ONE band only. 160 meters is way down, all the other bands seem OK, they may be down a little, but not much. The "resonate" control (preselector) will peak in the 160 meter band, but it peaks much higher towards the bottom of the 160 range, and loses sensitivity rapidly above 1.8. The receive antenna seems to come through the pin diode attenuator (which seems to work normally....) and then to the RX trimmer board with some fixed caps and a trimmer cap. I have replaced the 160 meter caps. It is not them. Then the signal goes to the RF amp which seems to be a parallel tuned inductance for adjustment

I know the problem has to be in there, for when I connect the antenna to

the mixer directly, I have plenty of signal on 160 (perhaps the solution is to wire the antenna directly there for 160, hi hi).

So, how does a pin diode work for an attenuator? Is leakage on one frequency possible? AND, could the parallel tuned inductors have come out of sync in such a way as to affect only 160 at one end of the band?

.....help!!!! I really like the radio a lot, and I want to use it on 160 as well as all the other bands.

73

Clark

.....

Clark Savage Turner, Graduate Student Researcher
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ARRL Volunteer Counsel

From qrp-request@Think.COM Mon Aug 23 12:26:11 1993
Subject: Re: Want Ten Tec OMNI elmer / help!
Date: Mon, 23 Aug 1993 09:23:41 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Thank you for the info about Ten Tec service. Indeed, they are really great, and, in fact, I am in contact with them (John McCoig, that is) about this. My problem baffles them, too, and I am still very interested in anyone else's opinions on what is going on inside this radio.....

72

Clark WA3JPG, bereaved 160 meter qrp wannabe.

From qrp-request@Think.COM Tue Jul 27 10:15:21 1993
Date: Tue, 27 Jul 93 14:07:09 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: What we are

Chuck wonders about a name for this crew. I'd say we were the QRP Mailing List, eh?

Jim

From qrp-request@Think.COM Mon Jun 21 17:26:54 1993
Date: Mon, 21 Jun 1993 17:26:26 +0500
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: Which QRP rig?

Hi,

I was at a local hamfest this weekend and nearly came home with an MFJ qrp rig for 30 meters. I only decided to hold off because I was a little leery of MFJ and because I didn't know if there was a 'clear winner' in the battle of the new little qrp rigs. I have an HW-8 and so I am well aquainted with direct conversion receivers. I was thinking that I'd like to go with a single signal receiver with a nice filter. The only two I am aware of are the A&A engineering unit that is designed by Gary Breed, and the MFJ. I noted on the schematic that the MFJ starts out with an NE602, and that worried me a little. Both seem to make about 4-5 watts. The cabinet on the A&A unit is pretty large, the MFJ had a nice little cabinet and decent tuning feel. Can anyone give me their impressions of how these two compare? Jeff, I think you are doing some sort of comparison between units, aren't you?

Thanks,

Kevin - WB2EMS (fkf1@cornell.edu)

F. Kevin Feeney
Network Video Engineer
172 Caldwell Hall
Cornell University
Ithaca, NY 14853-2602
Phone - (607) 255-5186
FAX - (607) 255-5771
EMAIL - fkf1@cornell.edu

From qrp-request@Think.COM Wed Jul 28 05:31:42 1993
Date: Wed, 28 Jul 93 11:31:13 +0200
From: martin.zurn@cen.jrc.it (Martin Zurn)
Subject: Who knows Ed in KP2?

Hi QRP folks,

Yesterday afternoon I worked a QRPer trying hard to QSO me. He failed cuz the sigs were too low. I did not even get the complete call:

I got KP2/K??Y? Name Ed QTH Saint Thomas (one of the US Virgin Isl.).
Confess that I was running 50 W (to a dipole). Ed seemed to have a fairly
solid copy and he was a real patient operator.

Does anybody know the rest of the call?

If yes pse e-mail to IK2RMZ (martin.zurn@jrc.it or IK2RMZ@W2X0.#WPA.PA.USA.NA)
Ciao

From qrp-request@Think.COM Wed Jul 7 10:34:45 1993
Date: Wed, 07 Jul 93 14:13:03 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Would You Buy An Argo?

Well, response to my question, "How much would you pay
for an Argo 515 if Ten Tec resumed production" was
underwhelming. In fact, only that venerable stargazer
and QRP denizen, K5F0, even bothered to respond. Chuck
said he'd pay \$700.

I'm quite surprised. Here we have tons of people joyfully
plunking down >\$150 for single-band CW rigs with direct-
conversion receivers. Assuming 9 bands, you're talking
\$1350, CW only! A smart manufacturer could certainly
produce a QRP CW/SSB rig for half that price.

72, KR1S

From qrp-request@Think.COM Wed Jul 7 12:44:58 1993
From: Kevin Purcell (Rho) <a-kevinp@microsoft.com>
Date: Wed, 7 Jul 93 09:38:52 PDT
Subject: RE: Would You Buy An Argo?

Didn;t see you previous message -- and I read all the QRP list messages.

About \$150 is OK for a 505 -- I have one and paid that and am happy
with the value for money -- it had been well cared for and had be
recently realigned by TenTec. I could see people paying up to \$200 but
I don't think I'd go more than that -- heading to 509 country.

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

From: Jim Kearman <netmail!jkearman@arrl.org>
To: <QRP@Think.COM>
Subject: Would You Buy An Argo?
Date: Wednesday, July 07, 1993 2:13PM

Well, response to my question, "How much would you pay for an Argo 515 if Ten Tec resumed production" was underwhelming. In fact, only that venerable stargazer and QRP denizen, K5F0, even bothered to respond. Chuck said he'd pay \$700.

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72, KR1S